

```

10 ; SAVE #D2:MENU.SRC
20 ;
40 ;
50 ;
60 ; REV 4.1 9/19/83 X-MODEM PROTOCOL
70 ; AND 80 COLUMN OPTION ADDED.
80 ; NOW WORKS OF PORT #2 FOR
90 ; NEW XL COMPUTERS.
0100 ; ELIMINATED 7/8 BIT INPUT.
0110 ; WORKS ON CARTRIDGE NOW.
0120 ; NOW WITH AUTODIAL 10/19/83
0130 ; REV 5.0 XMOD WRAP/PR #DIALED
0140 ; HOOKS-MODEM DRIVER/VIDEO DRIVER
0150 ; DISK CLOSE ON XMOD RICH-10/1/84
0160 ;
=0001 0170 PROM = 1 ; CART ASSEMBLE
0180 ;
0190 .INCLUDE #D:VAR.SRC
10 ; SAVE #D2:VAR.SRC
20 ;
30 ;
0000 40 *= $80
0080 50 BUFFER *= *+22 ; BUFFER POINTER
0096 60 BUFF *= *+40
70 ;
80 ; GOES TO $BE ON ZERO PAGE
90 ;
00BE 0100 *= $0480
0110 ;
0480 0120 TOPBUF *= *+2
0482 0130 BOTBUF *= *+2
0484 0140 BUFMAX *= *+2
0486 0150 MAXTOP *= *+2
0488 0160 TRANF *= *+1
0489 0170 BINP *= *+1
048A 0180 BIT8F *= *+1
048B 0190 DUPLF *= *+1
048C 0200 CASFLG *= *+1
048D 0210 SAVMOD *= *+1
048E 0220 SCRFLG *= *+1
048F 0230 COLFLG *= *+1
0490 0240 DISKF *= *+1
0491 0250 PRFLG *= *+1
0492 0260 LOADF *= *+1
0493 0270 SAVEF *= *+1
0494 0280 FULLF *= *+1
0495 0290 DPRFLG *= *+1
0496 0300 ANSFLG *= *+1
0497 0310 INVST *= *+1 ; START INVERSE
0498 0320 INVEND *= *+1 ; POSITION
0499 0340 INIT *= *+7 ; JSR INIT
04A0 0350 INIBYTE *= *+2 ; ORIGINAL DOSINI
04A2 0360 PLCNT *= *+1
04A3 0370 DIALADD *= *+2
04A5 0380 ; MODEM BUFFER USES PAGE 6
04A6 0390 BUFFNUM *= *+1
0400 0400 DIALF *= *+1

```

11/1/84

300', 155', 155', 155'  
 CBAND

```

04A7      0410 HANDFLG *= *+1 ;HNDLER BOOTED?
04A8      0420 RFNAME *= *+2
04AA      0430 HDRBFF *= *+6
04B0      0440 OUTBIT *= *+1
04B1      0450 INPBIT *= *+1
04B2      0460 OUTINT *= *+1
04B3      0470 INPINT *= *+1
04B4 02    0480 OUTBUF BYTE 2 4 = 8+2
04B5      0490 OUTBFFT *= *+1
04B6      0500 INPBFFT *= *+1
04B7      0510 IBUFERR *= *+1
04B8      0520 ISTOP *= *+1
04B9      0530 DEFFLG *= *+1
04BA      0540 PARFLG *= *+1
04BB      0550 SCRAT *= *+1
04BC      0560 INP *= *+1
04BD 72A1  0570 JTABLE .WORD JMODINIT ;JTABLE+0
04BF 82A1  0580      .WORD JOPEN ;JTABLE+2
04C1 D0A1  0590      .WORD JCLOSE ;JTABLE+4
04C3 E6A1  0600      .WORD JREAD ;JTABLE+6
04C5 14A2  0610      .WORD JWRITE ;JTABLE+8
04C7 50A2  0620      .WORD JMSTATS ;JTABLE+10 - CARRIER TEST
04C9 5FA2  0630      .WORD JONHOOK ;JTABLE+12
04CB 56A2  0640      .WORD JOFFHOOK ;JTABLE+14
04CD 68A2  0650      .WORD JMSEA ;JTABLE+16 - BIT HIGH
04CF 71A2  0660      .WORD JMSEB ;JTABLE+18 - BIT LOW
04D1 7AA2  0670      .WORD JMSEC ;JTABLE+20 - DETECT RING
04D3 3330309B 0671 CBAUD .BYTE "300",155,155,155
04D7 9B9B

```

```

04D9      0680 ;
055B      0690 XMBUFF *= *+130
055C      0700 XTEMP *= *+1
055D      0710 XTEMP1 *= *+1
055E      0720 XTEMP2 *= *+1
055F      0730 CHKSUM *= *+1
0560      0740 XMODF *= *+1
0561      0750 ERFL *= *+1
0562      0760 KEYTOG *= *+1
0563      0770 XBYTE *= *+1
0564      0780 LASTREC *= *+1
0565      0790 XBLKNUM *= *+1
0566      0800 BFPTS *= *+2
0567      0810 DERFLG *= *+1
0568 45    0820 BAUD .BYTE 69
0569      0830 ENDRAM *= *+1
056A      0840 LASTCH *= *+1
056B      0850 GOTREC *= *+1
056C      0860 PHONE *= *+1
056D      0870 OPFLG *= *+1
056E      0880 ;
056F      0200      .INCLUDE #D:SYSTEXT.SRC
0570      10 ; SAVE #D2:SYSTEXT.SRC
0571      20 ;
0572      30 ;
0573      40 PLPTR = $C6
0574      50 DIALBF = $C8
0575      60 INPBUF = $CA
0576      70 BUFPTR = $CC

```

```
=00CE      80 PTR      =    $CE
=00D0      90 PRPTR   =    $D0
=00D2      0100 SENPTR =    $D2
=00D4      0110 FRO    =    $D4
=0009      0120 CPUTR   =    $09      ; PUT RECORD
=000B      0130 CPUTC   =    $0B
=0003      0140 COPEN   =    $03
=000C      0150 CCLOSE  =    $0C
=0007      0160 CGETC   =    $07
=0005      0170 CGETR   =    $05
=000D      0180 CSTATUS =    $0D
=000A      0190 DOSVEC  =    $0A
=000C      0200 DOSINI  =    $0C
=0010      0210 FOKMSK  =    $10
=0011      0220 BRKKEY  =    $11
=0012      0230 RTCLOK  =    $12
=0210      0240 VTIMR1  =    $0210
=0216      0250 VIMIRQ  =    $0216
=022B      0260 SRTIMR  =    $022B
=022F      0270 SDMCTL  =    $022F
=0230      0280 SDLSTL  =    $0230
=0231      0290 SDLSTH  =    $0231
=0232      0300 SSKCTL  =    $0232
=0234      0310 LPENH   =    $0234
=0235      0320 LPENV   =    $0235
=026F      0330 GPRIOR  =    $026F
=0270      0340 PADDLO  =    $0270
=0278      0350 STICKO  =    $0278
=0284      0360 STRIGO  =    $0284
=02BE      0370 SHFLK   =    $02BE
=02C0      0380 PCOLRO  =    $02C0
=02C4      0390 COLDRO  =    $02C4
=02E5      0400 MEMTOP  =    $02E5
=02E7      0410 MEMLO   =    $02E7
=02F3      0420 CHART   =    $02F3
=02F4      0430 CHBAS   =    $02F4
=02FC      0440 CH      =    $02FC
=02FE      0450 DSPFLG  =    $02FE
=0300      0460 DDEVIC  =    $0300
=0301      0470 DUNIT   =    $0301
=0302      0480 DCOMND  =    $0302
=0303      0490 DSTATS  =    $0303
=0304      0500 DBUFLO  =    $0304
=0305      0510 DBUFHI  =    $0305
=0306      0520 DTIMLO  =    $0306
=0308      0530 DBYTLO  =    $0308
=0309      0540 DBYTHI  =    $0309
=030A      0550 DAUX1   =    $030A
=030B      0560 DAUX2   =    $030B
=0340      0570 IOCB    =    $0340
=0342      0580 ICCOM   =    $0342
=0342      0590 ICCMD   =    $0342
=0344      0600 ICBAL   =    $0344
=0345      0610 ICBALH  =    $0345
=0348      0620 ICBLL   =    $0348
=0349      0630 ICBLLH  =    $0349
=034A      0640 ICAX1   =    $034A
=034B      0650 ICAX2   =    $034B
```

=E456	0660 CIOV =	\$E456	
=E459	0670 SIOV =	\$E459	
=E45C	0680 SETVBV =	\$E45C	
=E462	0690 XITVBV =	\$E462	
=E474	0700 OSRETN =	\$E474	
=FCD8	0710 CLICK =	\$FCD8	
=D000	0720 HPOSP0 =	\$D000	
=D000	0730 MOPF =	\$D000	
=D004	0740 HPOSM0 =	\$D004	
=D004	0750 POPF =	\$D004	
=D008	0760 MOPF =	\$D008	
=D008	0770 SIZEP0 =	\$D008	
=D00C	0780 POPF =	\$D00C	
=D00C	0790 SIZEM =	\$D00C	
=D00D	0800 GRAFF0 =	\$D00D	
=D010	0810 TRIGO =	\$D010	
=D011	0820 GRAFM =	\$D011	
=D012	0830 COLPM0 =	\$D012	
=D016	0840 COLPF0 =	\$D016	
=D01A	0850 COLBK =	\$D01A	
=D01B	0860 PRIOR =	\$D01B	
=D01C	0870 VDELAY =	\$D01C	
=D01D	0880 GRACL =	\$D01D	
=D014	0890 HITCLR =	\$D014	
=D01F	0900 CONSOL =	\$D01F	
=D200	0910 POTO =	\$D200	
=D200	0920 AUDF1 =	\$D200	
=D201	0930 AUDC1 =	\$D201	
=D208	0940 AUDCTL =	\$D208	
=D208	0950 ALLPOT =	\$D208	
=D209	0960 KBCODE =	\$D209	
=D209	0970 STIMER =	\$D209	
=D20A	0980 RANDOM =	\$D20A	
=D20A	0990 SERIN =	\$D20A	
=D20A	1000 SKREST =	\$D20A	
=D20B	1010 POTGO =	\$D20B	
=D20C	1020 SEROUT =	\$D20C	
=D20E	1030 IRGEN =	\$D20E	
=D20E	1040 IRQST =	\$D20E	
=D20F	1050 SKCTL =	\$D20F	
=D20F	1060 SKSTAT =	\$D20F	
=D300	1070 PORTA =	\$D300	
=D300	1080 PORTB =	\$D300	; PORTA FOR 1200
=D300	1090 PIA =	\$D300	
=D302	1100 PBCTL =	\$D302	; REALLY PACTL
=D400	1110 DMACTL =	\$D400	
=D401	1120 CHACTL =	\$D401	
=D402	1130 DLISTL =	\$D402	
=D403	1140 DLISTH =	\$D403	
=D404	1150 HSCROL =	\$D404	
=D405	1160 VSCROL =	\$D405	
=D407	1170 PMBASE =	\$D407	
=D409	1180 CHBASE =	\$D409	
=D40A	1190 WSYNC =	\$D40A	
=D40B	1200 VCOUNT =	\$D40B	
=D40C	1210 PENH =	\$D40C	
=D40D	1220 PENV =	\$D40D	
=D40E	1230 NMIEH =	\$D40E	

```

=D40F      1240 NMIRES = $D40F
=D40F      1250 NMIST = $D40F
=D800      1260 AFP = $D800
=D8E6      1270 FASC = $D8E6
=D9AA      1280 IFP = $D9AA
=D9D2      1290 FPI = $D9D2
=DA60      1300 FSUB = $DA60
=DB28      1310 FDIV = $DB28
=DDB6      1320 FMOVE = $DDB6
0210 ;
=0001      0220      .IF FROM
056E      0230      *= $A000
          0240      .ELSE
          0250      *= $1D00
          0260      .ENDIF
          0270 ;
          0280      .INCLUDE #D:LOADNGO.SRC
          10 ; SAVE #D2:LOADNGO.SRC
          20 ;
          30 ;
          40 ; MICRO LOADER/RUN SYSTEM FOR MPP
          50 ; SMART TERMINAL 10/4/84
          60 ; STRUCTURE OF HEADERS IS:
          70 ; BYTES 0->5
          80 ;      STOCK (FF FF SL SH EL EH)
          90 ; WILL EXECUTE AT BYTES: SL SH
          0100 ; DO NOT USE MULTIPLE ORIGIN FILES!
          0110 ; (USE BINARY SAVE FROM DOS2.0, ETC)
          0120 ; WOULD START AS: *=$BEGIN-3
          0130 ;      JMP GO/INIT (3BYTES)
          0140 ;      BEGIN ACTUAL CODE
          0150 ;
          0160 ;
          0170 ;
A000 2091A0 0180 GETHDR JSR CLOSE
A003 A230   0190      LDX ##30
A005 A903   0200      LDA ##03
A007 9D4203 0210      STA ICCOM,X
A00A ADA804 0220      LDA RFNAME
A00D 9D4403 0230      STA ICBAL,X
A010 ADA904 0240      LDA RFNAME+1
A013 9D4503 0250      STA ICBAL,X
A016 A904   0260      LDA #4
A018 9D4A03 0270      STA ICAX1,X
A01B A900   0280      LDA #0
A01D 9D4B03 0290      STA ICAX2,X
A020 2056E4 0300      JSR CIOV
A023 3048   0310      BMI OUTZ
A025 A907   0320      GETEM LDA #7      ; READ BYTES
A027 9D4203 0330      STA ICCOM,X
A02A A9AA   0340      LDA # <HDBFF
A02C 9D4403 0350      STA ICBAL,X
A02F A904   0360      LDA # >HDBFF
A031 9D4503 0370      STA ICBAL,X
A034 A900   0380      LDA #$00
A036 9D4903 0390      STA ICBLL,X
A039 A906   0400      LDA #$06      ; 6 BYTE HEADER
A03B 9D4803 0410      STA ICBLL,X

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A03E 2056E4      0420      JSR CIOV
A041 302A        0430      BMI OUTZ
A043 ADAC04      0440      LDA HDRBFF+2 ;LOADADDR
A046 9D4403      0450      STA ICBAL,X
A049 ADAD04      0460      LDA HDRBFF+3
A04C 9D4503      0470      STA ICBAL,X
A04F A980        0480      LOOPZA LDA #$80
A051 9D4803      0490      STA ICBLL,X
A054 2056E4      0500      JSR CIOV
A057 3014        0510      BMI OUTZ      ;ALL DONE?
A059 18          0520      CLC
A05A BD4403      0530      LDA ICBAL,X
A05D 6980        0540      ADC #$80
A05F 9D4403      0550      STA ICBAL,X
A062 BD4503      0560      LDA ICBAL,X
A065 6900        0570      ADC #$00
A067 9D4503      0580      STA ICBAL,X
A06A 4C4FA0      0590      JMP LOOPZA
A06D 98          0600      OUTZ TYA
A06E 48          0610      PHA          ;CANT USE DISK
A06F A230        0620      LDX #$30      ;ERROR - WILL
A071 2029AB      0630      JSR CIOCB      ;HANG ON BOOT
A074 68          0640      PLA
A075 C988        0650      CMP #$88
A077 D009        0660      BNE NOWAY
A079 208BA0      0670      JSR RUNITZ
A07C 208EA0      0680      JSR OPEN
A07F A001        0690      LDY #$01
A081 60          0700      RTS
A082 208EA0      0710      NOWAY JSR OPEN
A085 A0FF        0720      LDY #$FF
A087 60          0730      RTS
A088 6CAC04      0740      RUNITZ JMP (HDRBFF+2)
0750 ;
0290      .INCLUDE #D:MODB.SRC
10 ; SAVE #D2:MODB.SRC
20 ;
30 ;
40 ; REV 3.0 WITH ODD/EVEN PARITY
50 ; PARFLG=0 NO PARITY
60 ; PARFLG=1 ODD
70 ; PARFLG=$80 EVEN
80 ;
90 ;
=00FE          0100      BUFLN = $FE
=0001          0110      OBFLN = 1
0120 ;
A08B 6CBD04      0130      MODINIT JMP (JTABLE)
A08E 6CBF04      0140      OPEN JMP (JTABLE+2)
A091 6CC104      0150      CLOSE JMP (JTABLE+4)
A094 6CC304      0160      READ JMP (JTABLE+6)
A097 6CC504      0170      WRITE JMP (JTABLE+8)
A09A 6CC704      0180      MSTATS JMP (JTABLE+10)
A09D 6CC904      0190      DNHOOK JMP (JTABLE+12)
AOA0 6CCB04      0200      OFFHOOK JMP (JTABLE+14)
AOA3 6CCD04      0210      MSPEC1 JMP (JTABLE+16)
AOA6 6CCF04      0220      MSPEC2 JMP (JTABLE+18)
AOA9 6CD104      0230      MSPEC3 JMP (JTABLE+20)

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```

0240 ;
AOAC ADB104 0250 DRIVER LDA INPBIT
AOAF D013 0260 BNE GETBIT ; MIDDLE BYTE
AOB1 A920 0270 LDA ##20
AOB3 2D00D3 0280 AND PIA
AOB6 F063 0290 BEQ SENDBIT ; NO START
AOB8 A908 0300 LDA #8 ; LENGTH
AOBA 8DB104 0310 STA INPBIT
AOBD A904 0320 LDA #4 ; # IRQ's
AOBF 8DB304 0330 STA INPINT
AOC2 D057 0340 BNE SENDBIT ; BRA
0350 ;
0360 ; READ A BIT FROM PIA IF ITS TIME
0370 ;
AOC4 CEB304 0380 GETBIT DEC INPINT
AOC7 D052 0390 BNE SENDBIT ; NOT TIME YET
AOC9 ADB804 0400 LDA ISTOP ; ANY STOPS
AOCC F008 0410 BEQ NOSTOP
AOCE CEB104 0420 DEC INPBIT
AOD1 CEB804 0430 DEC ISTOP
AOD4 F045 0440 BEQ SENDBIT ; BRA
AOD6 A920 0450 NOSTOP LDA ##20
AOD8 2D00D3 0460 AND PIA
AODB F003 0470 BEQ ZIPO
AODD 38 0480 SEC
AODE B001 0490 BCS ROTATE
AOEO 18 0500 ZIPO CLC
AOE1 6EBC04 0510 ROTATE ROR INP
AOE4 CEB104 0520 DEC INPBIT
AOE7 D02B 0530 BNE NOBYTE
AOE9 98 0540 TYA
AOEA 48 0550 PHA
AOEB CEB604 0560 DEC INPBFFT
AOEE 08 0570 PHP
AOEF ADB604 0580 LDA INPBFFT
AOF2 28 0590 PLP
AOF3 D008 0600 BNE BFNOTFUL
AOF5 A9FE 0610 LDA #BUFLEN
AOF7 8DB704 0620 STA IBUFERR
AOF8 8DB604 0630 STA INPBFFT
AOFD A8 0640 BFNOTFUL TAY
AOFE ADBC04 0650 LDA INP
A101 49FF 0660 EOR ##FF
A103 91CA 0670 STA (INPBUF),Y
A105 68 0680 PLA
A106 A8 0690 TAY
A107 EEB104 0700 INC INPBIT
A10A A903 0710 LDA #3
A10C 8DB304 0720 STA INPINT
A10F EEB804 0730 INC ISTOP
A112 D007 0740 BNE SENDBIT ; BRA
A114 A903 0750 NOBYTE LDA #3
A116 8DB304 0760 STA INPINT
A119 D000 0770 BNE SENDBIT
0780 ;
0790 ; CHECK STATUS OF OUTPUT BUF
0800 ; AND SEND PROCESS
0810 ;

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```

A11B ADB004      0820 SENDBIT LDA OUTBIT
A11E F026        0830      BEQ CHKBUF
A120 CEB204      0840      DEC OUTINT
A123 D01F        0850      BNE RETURN
A125 CEB004      0860      DEC OUTBIT
A128 F01C        0870      BEQ CHKBUF
A12A 18          0880      CLC
A12B 6EB404      0890      ROR OUTBUF
A12E B007        0900      BCS ONEOUT
A130 A9EF        0910      LDA #$EF
A132 2D00D3      0920      AND PIA
A135 9005        0930      BCC ZIPSKIP
A137 A910        0940 ONEOUT LDA #$10
A139 0D00D3      0950      ORA PIA
A13C 8D00D3      0960 ZIPSKIP STA PIA
A13F A903        0970      LDA #3
A141 8DB204      0980      STA OUTINT
A144 68          0990 RETURN PLA      ;RTI
A145 40          1000      RTI
A146 ADB504      1010 CHKBUF LDA OUTBFPT
A149 F0F9        1020      BEQ RETURN
A14B A903        1030      LDA #3
A14D 8DB204      1040      STA OUTINT
A150 A90A        1050      LDA #10
A152 8DB004      1060      STA OUTBIT
A155 8A          1070      TXA
A156 48          1080      PHA
A157 AEB504      1090      LDX OUTBFPT
A15A BDB404      1100      LDA OUTBUF,X
A15D 49FF        1110      EOR #$FF
A15F 8DB404      1120      STA OUTBUF
A162 68          1130      PLA
A163 AA          1140      TAX
A164 A910        1150      LDA #$10
A166 0D00D3      1160      ORA PIA
A169 8D00D3      1170      STA PIA      ;START BIT
A16C CEB504      1180      DEC OUTBFPT
A16F B8          1190      CLV
A170 50D2        1200      BVC RETURN
1210 ;
1220 ; INIT
1230 ;
A172 A900        1240 JMODINIT LDA #0
A174 8D02D3      1250      STA FBCTL
A177 A950        1260      LDA #$50
A179 8D00D3      1270      STA PORTB
A17C A904        1280      LDA #$04
A17E 8D02D3      1290      STA FBCTL
A181 60          1300      RTS
1310 ; OPEN
1320 ;
A182 A913        1330 JOPEN LDA #$13
A184 8D0FD2      1340      STA $D20F      ;SKCTL
A187 8D3202      1350      STA $0232      ;SSKCTL
A18A A900        1360      LDA #0
A18C 8DB004      1370      STA OUTBIT
A18F 8DB104      1380      STA INPBIT
A192 8DB504      1390      STA OUTBFPT

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A195 8DB804      1400  - STA ISTOP
A198 8DB704      1410  - STA IBUFERR
A19B 8D08D2      1420      STA AUDCTL
A19E A9FE        1430      LDA #BUFLN
A1A0 8DB604      1440      STA INPBFFT
A1A3 AD6805      1450      LDA BAUD
A1A6 8D00D2      1460      STA AUDF1
A1A9 A9A0        1470      LDA ##A0
A1AB 8D01D2      1480      STA AUDC1
A1AE 8D03D2      1490      STA AUDC1+2
A1B1 8D05D2      1500      STA AUDC1+4
A1B4 8D07D2      1510      STA AUDC1+6
A1B7 A9AC        1520      LDA #DRIVER&255
A1B9 8D1002      1530      STA VTIMR1
A1BC A9A0        1540      LDA #DRIVER/256
A1BE 8D1102      1550      STA VTIMR1+1
A1C1 A510        1560      LDA POKMSK
A1C3 0901        1570      ORA #1
A1C5 8510        1580      STA POKMSK
A1C7 8D0ED2      1590      STA IRGEN
A1CA 8D09D2      1600      STA STIMER
A1CD A001        1610      LDY #1
A1CF 60          1620      RTS
                  1630 ; CLOSE
                  1640 ;
A1D0 ADB504      1650 JCLOSE LDA OUTBFFT -
A1D3 D0FB        1660      BNE JCLOSE -
A1D5 ADB004      1670      LDA OUTBIT
A1D8 D0F6        1680      BNE JCLOSE
A1DA A9FE        1690      LDA ##FE
A1DC 2510        1700      AND POKMSK
A1DE 8510        1710      STA POKMSK
A1E0 8D0ED2      1720      STA IRGEN
A1E3 A001        1730      LDY #1
A1E5 60          1740      RTS
                  1750 ;
                  1760 ; READ SEND A BYTE TO CIO
A1E6 A0FD        1770 JREAD LDY #BUFLN-1
A1E8 B1CA        1780      LDA (INPBUF),Y
A1EA 48          1790      PHA
A1EB 78          1800      SEI
A1EC CCB604      1810      CPY INPBFFT
A1EF F00E        1820      BEQ CHK
A1F1 88          1830 MOVE4 DEY
A1F2 58          1840      CLI
A1F3 B1CA        1850      LDA (INPBUF),Y
A1F5 C8          1860      INY
A1F6 91CA        1870      STA (INPBUF),Y
A1F8 88          1880      DEY
A1F9 78          1890      SEI
A1FA CCB604      1900      CPY INPBFFT
A1FD D0F2        1910      BNE MOVE4
A1FF EEB604      1920 CHK INC INPBFFT
A202 58          1930      CLI
A203 68          1940      PLA
A204 AEB704      1950      LDX IBUFERR
A207 F008        1960      BEQ OK5
A209 A200        1970      LDX #0

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A20B 8EB704	1980	STX IBUFERR	
A20E A089	1990	LDY #137	
A210 60	2000	RTS	
A211 A001	2010	OK5 LDY #1	
A213 60	2020	RTS	
	2030	;	
	2040	; WRITE SEND A CHAR	
	2050	;	
A214 ACBA04	2060	JWRITE LDY FARFLG	
A217 F01E	2070	BEG NOPAR	
A219 297F	2080	AND ##7F	
A21B 48	2090	PHA	
A21C A000	2100	LDY #0	
A21E 1001	2110	CKLOOP BPL SHFT	
A220 C8	2120	INY	
A221 0A	2130	SHFT ASL A	
A222 D0FA	2140	BNE CKLOOP	
A224 98	2150	TYA	
A225 4A	2160	LSR A	
A226 68	2170	PLA	
A227 ACBA04	2180	LDY FARFLG	
A22A 3007	2190	BMI EVENP	
A22C B009	2200	BCS NOPAR	
A22E 0980	2210	ORA ##80	
A230 4C37A2	2220	JMP NOPAR	
A233 9002	2230	EVENP BCC NOPAR	
A235 0980	2240	ORA ##80	
A237 ACB504	2250	NOPAR LDY OUTBFPT	
A23A C001	2260	CPY #0BFLEN	
A23C F0D6	2270	BEG JWRITE	
A23E 78	2280	SEI	
A23F AEB504	2290	LDX OUTBFPT	
A242 EB	2300	INX	
A243 8EB504	2310	STX OUTBFPT	
A246 9DB404	2320	STA OUTBUF,X	
A249 58	2330	CLI	
A24A 9DB404	2340	RET123 STA OUTBUF,X	
A24D A001	2350	RETNOW LDY #1	
A24F 60	2360	RTS	
	2370	;	
	2380	; MSTATS	
A250 AD00D3	2390	JMSTATS LDA PORTB	CARRIER
A253 2980	2400	AND ##80	1000
A255 60	2410	RTS	
	2420	;	
	2430	; OFFHOOK	
A256 AD00D3	2440	JOFFHOOK LDA PORTB	
A259 29BF	2450	AND ##BF	1011
A25B 8D00D3	2460	STA PORTB	
A25E 60	2470	RTS	
	2480	;	
	2490	; ONHOOK	
A25F AD00D3	2500	JONHOOK LDA PORTB	
A262 0940	2510	ORA ##40	0100
A264 8D00D3	2520	STA PORTB	
A267 60	2530	RTS	
	2540	; MSPEC1	
A268 AD00D3	2550	JMSA LDA PORTB	

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A26B 0910      2560      ORA #$10 —  $\phi\phi\phi$ 
A26D 8D00D3    2570      STA PORTB
A270 60         2580      RTS
                2590 ; MSPEC2
A271 AD00D3    2600 JMSB LDA PORTB
A274 29EF      2610      AND #$EF —  $111\phi$ 
A276 8D00D3    2620      STA PORTB
A279 60         2630      RTS
                2640 ; MSPEC3
A27A AD11D0    2650 JMSC LDA $D011 pinb
A27D 60         2660      RTS
                2670 ;
                0300      .INCLUDE #D:TERM.SRC
                10 ; SAVE #D2:TERM.SRC
                20 ;
                30 ;
                40 ; VER 4.0 9/17/83
                50 ; VER 5.0 10/2/84
                60 ;
                70 ;
A27E           80 TERM
A27E 200AA3     90 LOOP1 JSR STKEY
A281 D003       0100      BNE CLOOP1
A283 4CDFAD     0110      JMP MENU ;START KEY
A286 209AA0     0120 CLOOP1 JSR MSTATS
A289 D005       0130      BNE JLP2 — CARRIAGE-YES
A28B AD9604     0140      LDA ANSFLG
A28E D003       0150      BNE YANSF
A290 4C15A3     0160 JLP2 JMP LOOP2
A293 2094AA     0170 YANSF JSR TESOPT
A296 F006       0180      BEQ NOOPT1
A298 8C6D05     0190      STY OPFLG
A29B 20E7A7     0200      JSR PXMES7 ;'SAVE ON' MES
A29E AD6C05     0210 NOOPT1 LDA PHONE ;IS PHONE
A2A1 F003       0220      BEQ PHYES ;ALREADY
A2A3 4C24A3     0230      JMP LOOP3 ;ANSWERED?
                0240 ;MUST CHECK PHONE FOR
                0250 ;RETURN FROM MENU
A2A6 20A9A0     0260 PHYES JSR MSPEC3 ;TRIG1
A2A9 F0D3       0270      BEQ LOOP1 ;NO RING
A2AB 20A9A0     0280 NORING JSR MSPEC3
A2AE D0FB       0290      BNE NORING
A2B0 20A0A0     0300      JSR OFFHOOK
A2B3 A900       0310      LDA #0
A2B5 8513       0320      STA $13 ;RTCLOC
A2B7 A513       0330 WCARR LDA $13
A2B9 C908       0340      CMP #8 ;30 SEC.
A2BB 1039       0350      BPL HANGUP
A2BD 200AA3     0360      JSR STKEY
A2C0 D003       0370      BNE NSTART
A2C2 4CDFAD     0380 RTMENU JMP MENU
A2C5 209AA0     0390 NSTART JSR MSTATS
A2C8 F0ED       0400      BEQ WCARR
A2CA A901       0410      LDA #1
A2CC 8D6C05     0420      STA PHONE ;PHONE ANSWERED
A2CF A900       0430      LDA #0
A2D1 8514       0440      STA $14
A2D3 A514       0450 FORSEC LDA $14

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A2D5 C914      0460      CMP #20
A2D7 D0FA      0470      BNE FORSEC ; ONE SEC
                0480 ; WE NOW HAVE CARRIER DETECTED
                0490      JSR CLOSE
                0500      JSR OPEN
                0510      LDA OPFLG
                0520      BEQ LOOP3 ; SEND LOOP
                0530      STA DUPLF ; MAKE HALF DUPL
A2E7 200AA3    0540 KEYSNT JSR STKEY
A2EA F0D6      0550      BEQ RTMENU
A2EC A9FE      0560      LDA ##FE
A2EE CDB604    0570      CMP INPBFT
A2F1 F0F4      0580      BEQ KEYSNT
A2F3 4C8EA3    0590      JMP NENDTE
A2F6 209DA0    0600 HANGUP JSR ONHOOK
A2F9 A900      0610      LDA #0
A2FB 8D6C05    0620      STA PHONE
A2FE 8DC802    0630      STA 712
A301 8D9204    0640      STA LOADF
A304 8D9304    0650      STA SAVEF
A307 4C7EA2    0660      JMP LOOP1
A30A A9F8      0670 STKEY LDA ##F8
A30C 8D1FD0    0680      STA CONSOL
A30F A901      0690      LDA #1
A311 2C1FD0    0700      BIT CONSOL
A314 60        0710      RTS
                0720 ; RETURNS 0=PRESSED 1=NOT PRESSED
                0730 ; WAIT HERE FOR CARRIER
                0740 ; JUMP HERE IF NO AUTOANSWER
A315 20A0A0    0750 LOOP2 JSR OFFHOOK
A318 2980      0760      AND ##80 - CHECK FOR CARRIER
A31A D008      0770      BNE LOOP3
A31C 200AA3    0780 NOAT1 JSR STKEY
A31F D0F4      0790      BNE LOOP2
A321 4CDFAD    0800      JMP MENU
                0810 ; ACTUAL SEND & RECEIVE LOOP
A324 A900      0820 LOOP3 LDA #0
A326 B54D      0830      STA $4D ; NO ATTRACT MODE
A328 209AA0    0840      JSR MSTATS
A32B D012      0850      BNE CAROK
A32D A900      0860      LDA #0
A32F B514      0870      STA $14
A331 209AA0    0880 ONESEC JSR MSTATS
A334 D009      0890      BNE CAROK
A336 A514      0900      LDA $14
A338 C982      0910      CMP #130
A33A D0F5      0920      BNE ONESEC
A33C 4CF6A2    0930      JMP HANGUP
A33F A511      0940 CAROK LDA BRKKEY
A341 D01B      0950      BNE NOBRK1
A343 8DFC02    0960      STA CH
A346 A980      0970      LDA ##80
A348 B511      0980      STA BRKKEY
A34A 20A3A0    0990      JSR MSPEC1
A34D A223      1000      LDX #35
A34F A514      1010 LP1 LDA 20
A351 C514      1020 LP2 CMP 20
A353 F0FC      1030      BEQ LP2

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A355 CA	1040	DEX
A356 D0F7	1050	BNE LP1
A358 20A6A0	1060	JSR MSPEC2
A35B 4C24A3	1070	JMP LOOP3
A35E A9F8	1080	NOBRK1 LDA ##F8
A360 8D1FD0	1090	STA CONSOL
A363 AD6105	1100	LDA KEYTOG
A366 F012	1110	BEQ TESTER
A368 A904	1120	LDA #4
A36A 2D1FD0	1130	AND CONSOL
A36D D003	1140	BNE ENDTE1
A36F 4CDAA3	1150	JMP ENDTEST
A372 A900	1160	ENDTE1 LDA #0
A374 8D6105	1170	STA KEYTOG
A377 4CDAA3	1180	JMP ENDTEST
A37A A901	1190	TESTER LDA #1
A37C 2C1FD0	1200	BIT CONSOL
A37F D003	1210	BNE NOSTART
A381 4CDFAD	1220	JMP MENU
A384 A904	1230	NOSTART LDA #4
A386 2C1FD0	1240	BIT CONSOL
A389 F003	1250	BEQ NENDTE
A38B 4CDAA3	1260	JMP ENDTEST
	1270	; HERE
A38E ADC802	1280	NENDTE LDA 712
A391 F00B	1290	BEQ GREEN
A393 A900	1300	LDA #0
A395 8DC802	1310	STA 712
A398 2001A8	1320	JSR PXMES8
A39B 4CABA3	1330	JMP CON76
A39E A9B4	1340	GREEN LDA #180
A3A0 8DC802	1350	STA 712
A3A3 AD8904	1360	LDA BINF
A3A6 D003	1370	BNE CON76
A3A8 20E7A7	1380	JSR PXMES7
A3AB A901	1390	CON76 LDA #1
A3AD 8D6105	1400	STA KEYTOG
A3B0 AD8D04	1410	LDA SAVMOD
A3B3 F015	1420	BEQ NOSAVM
A3B5 AD9304	1430	LDA SAVEF
A3B8 4901	1440	EOR #1
A3BA 8D9304	1450	STA SAVEF
A3BD AD8204	1460	LDA BOTBUF
A3C0 85D2	1470	STA SENPTR
A3C2 AD8304	1480	LDA BOTBUF+1
A3C5 85D3	1490	STA SENPTR+1
A3C7 4CD2A3	1500	JMP ENDOFT
A3CA AD9204	1510	NOSAVM LDA LOADF
A3CD 4901	1520	EOR #1
A3CF 8D9204	1530	STA LOADF
A3D2 AD8904	1540	ENDOPT LDA BINF
A3D5 F003	1550	BEQ ENDTEST
A3D7 4C04A6	1560	JMP XMODEM
A3DA ADFC02	1570	ENDTEST LDA CH
A3DD C9FF	1580	CMP ##FF
A3DF F029	1590	BEQ NOKEY
A3E1 2002BD	1600	JSR GETKEY
A3E4 207EA5	1610	JSR OUTCON



A3E7 48	1620	PHA
A3E8 2097A0	1630	JSR WRITE
A3EB AD8B04	1640	LDA DUPLF
A3EE F019	1650	BEQ DUPHLF
A3F0 68	1660	PLA
A3F1 209CA5	1670	JSR INCONV
A3F4 48	1680	PHA
A3F5 A240	1690	LDX #\$40
A3F7 A900	1700	LDA #0
A3F9 9D4803	1710	STA ICBLL,X
A3FC 9D4903	1720	STA ICBLLH,X
A3FF A90B	1730	LDA #\$0B
A401 9D4203	1740	STA ICCOM,X
A404 68	1750	PLA
A405 48	1760	PHA
A406 2056E4	1770	JSR CIOV
A409 68	1780	DUPHLF PLA
A40A A9FE	1790	NOKEY LDA #\$FE ; INPUT BUF
	1800	;POINTER FROM MODEM DRIVER
A40C CDB604	1810	CMP INPBFFT
A40F D01A	1820	BNE INCH
A411 AD9304	1830	LDA SAVEF
A414 F012	1840	BEQ NOGO
A416 200CA5	1850	JSR NOINCH
A419 100A	1860	BPL SENOUT
A41B 48	1870	PHA
A41C 2001A8	1880	JSR FXMES8
A41F 68	1890	PLA
A420 AC9004	1900	LDY DISKF
A423 F003	1910	BEQ NOGO
A425 20CAA5	1920	SENOUT JSR OUTD01
A428 4C24A3	1930	NOGO JMP LOOP3
A42B 2094A0	1940	INCH JSR READ
A42E C001	1950	CPY #1
A430 F00B	1960	BEQ NERK08
A432 AD6005	1970	LDA ERFL
A435 F003	1980	BEQ GOERR
A437 4C24A3	1990	JMP LOOP3
A43A 20ECB0	2000	GOERR JSR DERROR
A43D 8D6A05	2010	NERK08 STA LASTCH
A440 209CA5	2020	JSR INCONV
A443 48	2030	PHA
A444 A240	2040	LDX #\$40
A446 A900	2050	LDA #0
A448 8D6005	2060	STA ERFL
A44B 9D4803	2070	STA ICBLL,X
A44E 9D4903	2080	STA ICBLLH,X
A451 A90B	2090	LDA #\$0B
A453 9D4203	2100	STA ICCOM,X
A456 68	2110	PLA
A457 48	2120	PHA
A458 2056E4	2130	JSR CIOV
A45B AD9204	2140	LDA LOADF
A45E F006	2150	BEQ GTERM
A460 206AA4	2160	JSR KEEPER
A463 4C24A3	2170	JMP LOOP3
A466 68	2180	GTERM PLA
A467 4C24A3	2190	JMP LOOP3



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2200 ;
2210 ;THIS ROUTINE STORES THE CHAR
2220 ;ON THE TOP OF THE STACK IN
2230 ;MEM OR TO DISK OR PRINTER.
2240 ;
A46A 68      2250 KEEPER PLA
A46B AA      2260 TAX
A46C 68      2270 PLA
A46D AB      2280 TAY
A46E 68      2290 PLA
A46F 8D5B05  2300 STA XTEMP
A472 98      2310 TYA
A473 48      2320 PHA
A474 8A      2330 TXA
A475 48      2340 PHA
A476 AD5B05  2350 LDA XTEMP
A479 48      2360 PHA
A47A AD9004  2370 LDA DISKF
A47D 0D9504  2380 ORA DPRFLG
A480 F022    2390 BEQ SAVTOBF
A482 A230    2400 LDX ##30
A484 A900    2410 LDA #0
A486 9D4803  2420 STA ICBLL,X
A489 9D4903  2430 STA ICBLLH,X
A48C A90B    2440 LDA ##0B
A48E 9D4203  2450 STA ICCOM,X
A491 68      2460 PLA
A492 2056E4  2470 JSR CIOV
A495 3001    2480 BMI DSKERR
A497 60      2490 RTS
A498 20ECB0  2500 DSKERR JSR DERROR
A49B A900    2510 MCPERR LDA #0
A49D 8D9204  2520 STA LOADF
A4A0 8DC802  2530 STA 712
A4A3 60      2540 RTS
A4A4 A000    2550 SAVTOBF LDY #0
A4A6 AD9404  2560 LDA FULLF
A4A9 F004    2570 BEQ NAFULL
A4AB 68      2580 PLA
A4AC 4C9BA4  2590 JMP MCPERR
A4AF 68      2600 NAFULL PLA
A4B0 91CC    2610 STA (BUFPTR),Y
A4B2 E6CC    2620 INC BUFPTR
A4B4 D002    2630 BNE NOZIP
A4B6 E6CD    2640 INC BUFPTR+1
A4B8 A5CC    2650 NOZIP LDA BUFPTR
A4BA 8D8604  2660 STA MAXTOP
A4BD A5CD    2670 LDA BUFPTR+1
A4BF 8D8704  2680 STA MAXTOP+1
A4C2 AD8504  2690 LDA BUFMAX+1
A4C5 C5CD    2700 CMP BUFPTR+1
A4C7 B042    2710 BCS NOBERR
A4C9 A944    2720 LDA #68
A4CB 8DC802  2730 STA 712 ;BUFF FULL
A4CE A900    2740 LDA #0
A4D0 8D1FD0  2750 STA CONSOL
A4D3 A5CD    2760 LDA BUFPTR+1
A4D5 CD8104  2770 CMP TOPBUF+1

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A4D8 D031	2780	BNE NOBERR
A4DA A5CC	2790	LDA BUFPTR
A4DC CD8004	2800	CMP TOPBUF
A4DF D02A	2810	BNE NOBERR
A4E1 C6CC	2820	DEC BUFPTR
A4E3 D002	2830	BNE NOTZE
A4E5 C6CD	2840	DEC BUFPTR+1
A4E7 A240	2850	NOTZE LDX ##40
A4E9 A90B	2860	LDA ##0B
A4EB 9D4203	2870	STA ICCDM, X
A4EE A900	2880	LDA #0
A4F0 9D4803	2890	STA ICBLL, X
A4F3 9D4903	2900	STA ICBLLH, X
A4F6 A9FD	2910	LDA ##FD
A4F8 2056E4	2920	JSR CIOV
A4FB A900	2930	LDA #0
A4FD 8D9204	2940	STA LOADF
A500 8D9304	2950	STA SAVEF
A503 8DC802	2960	STA 712
A506 A901	2970	LDA #1
A508 8D9404	2980	STA FULLF
A50B 60	2990	NOBERR RTS
A50C AD9004	3000	NOINCH LDA DISKF
A50F D041	3010	BNE RDISK
A511 A000	3020	LDY #0
A513 B1D2	3030	LDA (SENPTR), Y
A515 48	3040	PHA
A516 A5CC	3050	LDA BUFPTR
A518 38	3060	SEC
A519 E5D2	3070	SBC SENPTR
A51B D01C	3080	BNE NOSFUL
A51D A5D3	3090	CONT12 LDA SENPTR+1
A51F C5CD	3100	CMP BUFPTR+1
A521 D016	3110	BNE NOSFUL
A523 A900	3120	LDA #0
A525 8D9304	3130	STA SAVEF
A528 8DC802	3140	STA 712
A52B AD8204	3150	LDA BOTBUF
A52E 85D2	3160	STA SENPTR
A530 AD8304	3170	LDA BOTBUF+1
A533 85D3	3180	STA SENPTR+1
A535 68	3190	PLA
A536 A080	3200	LDY ##80 ; EOF
A538 60	3210	RTS
A539 E6D2	3220	NOSFUL INC SENPTR
A53B D002	3230	BNE RETOK2
A53D E6D3	3240	INC SENPTR+1
A53F 68	3250	RETOK2 PLA
A540 A001	3260	LDY #1
A542 60	3270	RTS
A543 A900	3280	RETER2 LDA #0
A545 8D9304	3290	STA SAVEF
A548 8DC802	3300	STA 712
A54B 200CAB	3310	JSR DSKFIX
A54E 68	3320	PLA
A54F A080	3330	LDY ##80
A551 60	3340	RTS
A552 A230	3350	RDISK LDX ##30

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A554 A907      3360      LDA ##07
A556 9D4203    3370      STA ICCDM,X
A559 A900      3380      LDA #0
A55B 8D6705    3390      STA DERFLG
A55E 9D4803    3400      STA ICBLL,X
A561 9D4903    3410      STA ICBLLH,X
A564 2056E4    3420      JSR CIOV
A567 48        3430      PHA
A568 C003      3440      CPY #3          ; IS THIS LAST
A56A F0D7      3450      BEQ RETER2      ; BYTE OF FILE
A56C 98        3460      TYA          ; SET FLAGS
A56D 100B      3470      BPL NERR4
A56F 20ECB0    3480      NOEOF JSR DERROR
A572 A901      3490      LDA #1
A574 8D6705    3500      STA DERFLG
A577 4C43A5    3510      JMP RETER2
A57A 68        3520      NERR4 PLA
A57B A001      3530      LDY #1
A57D 60        3540      RTS
                3550      ;
                3560      ; CONVERT OUTGOING CHARACTOR
                3570      ;
A57E AE8804    3580      OUTCON LDX TRANF
A581 D018      3590      BNE NBSP
A583 C99B      3600      CMP #155
A585 D002      3610      BNE NCR
A587 A90D      3620      LDA #13
A589 C97D      3630      NCR CMP ##7D
A58B D002      3640      BNE NCLR
A58D A90C      3650      LDA #12
A58F C9FD      3660      NCLR CMP ##FD
A591 D002      3670      BNE NBEL
A593 A907      3680      LDA #7
A595 C97E      3690      NBEL CMP ##7E
A597 D002      3700      BNE NBSP
A599 A908      3710      LDA #8
A59B 60        3720      NBSP RTS
                3730      ;
                3740      ; CONVERT INCOMING CHARACTOR
                3750      ;
A59C AE8A04    3760      INCONV LDX BIT8F
A59F D002      3770      BNE BIT8
A5A1 297F      3780      AND ##7F
A5A3 AE8804    3790      BIT8 LDX TRANF
A5A6 D021      3800      BNE NOTRAN
A5A8 C90D      3810      CMP #13
A5AA D002      3820      BNE NOCR
A5AC A99B      3830      LDA #155
A5AE C907      3840      NOCR CMP #7
A5B0 D002      3850      BNE NOBEL
A5B2 A9FD      3860      LDA ##FD
A5B4 C908      3870      NOBEL CMP #8
A5B6 D002      3880      BNE NOBSP
A5B8 A97E      3890      LDA ##7E
A5BA C90C      3900      NOBSP CMP #12
A5BC D002      3910      BNE NOCLR
A5BE A97D      3920      LDA ##7D
A5C0 C920      3930      NOCLR CMP #32

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A5C2 B005      3940      BCS NOTRAN
A5C4 68        3950      PLA
A5C5 68        3960      PLA
A5C6 4C24A3    3970      JMP LOOP3
A5C9 60        3980 NOTRAN RTS
                3990 ;
                4000 ;SEND CHAR IN A TO MODEM AND
                4010 ;SCREEN WITH DUAL CONVERSION
                4020 ;
A5CA 48        4030 OUTD01 PHA
A5CB 48        4040      PHA
A5CC 18        4050      CLC
A5CD 68        4060      PLA
A5CE 207EA5    4070      JSR OUTCON
A5D1 2097A0    4080      JSR WRITE      ;SEND BUF CHAR
A5D4 AE8B04    4090      LDX DUPLF      ;TO MODEM
A5D7 D015      4100      BNE ECHO
A5D9 A9FE      4110      LDA #$FE
A5DB A21E      4120      LDX #30        ;WAIT 1/2 SEC
A5DD A414      4130 WAITL LDY 20        ;FOR CHAR
A5DF C414      4140 WAITS CPY 20
A5E1 F0FC      4150      BEQ WAITS
A5E3 CDB604    4160      CMP INPBFFT
A5E6 D003      4170      BNE ECHOD
A5E8 CA        4180      DEX
A5E9 D0F2      4190      BNE WAITL
A5EB 4C02A6    4200 ECHOD JMP NECHO
A5EE A240      4210 ECHO LDX #$40
A5F0 A90B      4220      LDA #$0B
A5F2 9D4203    4230      STA ICCOM,X
A5F5 A900      4240      LDA #0
A5F7 9D4803    4250      STA ICBLL,X
A5FA 9D4903    4260      STA ICBLLH,X
A5FD 68        4270      PLA
A5FE 48        4280      PHA
A5FF 2056E4    4290      JSR CIOV
A602 68        4300 NECHO PLA
A603 60        4310      RTS
                4320 ;
                4330 ;THIS ROUTINE PERFORMS A FILE
                4340 ;TRANSFER USING XMODEM PROTOCOL
                4350 ;IT USES LOADF AND SAVEF
                4360 ;
                4370 ;
=0001          4380 SOH = 1
=0004          4390 EOT = 4
=0006          4400 ACK = 6
=0015          4410 NAK = 21
=0018          4420 CAN = 24
A604 A900      4430 XMODEM LDA #0
A606 8D6B05    4440      STA GOTREC
A609 A5CC      4450      LDA BUFPTR
A60B 8D6505    4460      STA BFPTS
A60E A5CD      4470      LDA BUFPTR+1
A610 8D6605    4480      STA BFPTS+1
A613 AD9204    4490      LDA LOADF
A616 F003      4500      BEQ XMSAVE
A618 4C4FA8    4510      JMP XMLOAD

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A61B 2035A8	4520 XMSAVE JSR FXMES6
A61E A902	4530 LDA #2
A620 8D6405	4540 STA XBLKNUM
A623 A900	4550 LDA #0
A625 8D6705	4560 STA DERFLG
A628 8D6305	4570 STA LASTREC
A62B 2004A7	4580 JSR GREC
A62E D003	4590 BNE XSNLP
A630 4C99A6	4600 JMP WHAP
A633 AD6A05	4610 XSNLP LDA LASTCH
A636 C915	4620 CMP #NAK
A638 F047	4630 BEQ RETRY1
A63A A90A	4640 SENREC LDA #10
A63C 8D6205	4650 STA XBYTE
A63F 204BAA	4660 CON1 JSR GXCHAR
A642 1008	4670 BPL NTIME
A644 CE6205	4680 DEC XBYTE
A647 D0F6	4690 BNE CON1
A649 4C81A6	4700 JMP RETRY1
A64C D003	4710 NTIME BNE NOQUT
A64E 4C6BA9	4720 JMP OPSTOP
A651 A2FE	4730 NOQUT LDX #\$FE
A653 ECB604	4740 CPX INPBFTP
A656 D0E2	4750 BNE SENREC
A658 CD5E05	4760 CMP CHKSUM
A65B D012	4770 BNE NOEKCH ;DID THE REMOTE
A65D A008	4780 LDY #8 ;ECHO THE CHKSUM
A65F 8D6205	4790 STA XBYTE
A662 204BAA	4800 NOTAGN JSR GXCHAR
A665 1008	4810 BPL NOEKCH
A667 CE6205	4820 DEC XBYTE ;WAIT FOR THE
A66A D0F6	4830 BNE NOTAGN ;REAL ACK OR NAK
A66C AD5E05	4840 LDA CHKSUM ;FREAK CONINDNCE
A66F C906	4850 NOEKCH CMP #ACK ;CHKSUM=ACK
A671 F014	4860 BEQ REMRDY
A673 C915	4870 CMP #NAK
A675 F00A	4880 BEQ RETRY1
A677 C918	4890 CMP #CAN
A679 D003	4900 BNE NOTCAN
A67B 4CE4A9	4910 JMP REMABORT
A67E 4C3AA6	4920 NOTCAN JMP SENREC
A681 CE6405	4930 RETRY1 DEC XBLKNUM
A684 4CA4A6	4940 JMP CONGO
A687 AD6705	4950 REMRDY LDA DERFLG
A68A F008	4960 BEQ SEOT
A68C A900	4970 LDA #0
A68E 8D6705	4980 STA DERFLG
A691 4C6BA9	4990 JMP OPSTOP
A694 2004A7	5000 SEOT JSR GREC
A697 D00B	5010 BNE CONGO ;GOT DATA TO SND
A699 A904	5020 WHAP LDA #EOT
A69B 2097A0	5030 JSR WRITE
A69E 2000AA	5040 JSR EOTMES
A6A1 4CBCAA	5050 JMP XMEXIT
A6A4 A901	5060 CONGO LDA #SOH
A6A6 2097A0	5070 JSR WRITE
A6A9 AD6405	5080 LDA XBLKNUM
A6AC 2097A0	5090 JSR WRITE



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A6AF AD6405      5100      LDA XBLKNUM
A6B2 49FF        5110      EOR #$FF
A6B4 2097A0      5120      JSR WRITE
A6B7 AD6405      5130      LDA XBLKNUM
A6BA 20CFAA      5140      JSR PBLKNUM
A6BD A900        5150      LDA #0
A6BF 8D5E05      5160      STA CHKSUM
A6C2 A980        5170      LDA #128
A6C4 8D6205      5180      STA XBYTE
A6C7 AC6205      5190      XSENLP LDY XBYTE
A6CA B9D904      5200      LDA XMBUFF,Y
A6CD 48          5210      PHA
A6CE 18          5220      CLC
A6CF 6D5E05      5230      ADC CHKSUM
A6D2 8D5E05      5240      STA CHKSUM
A6D5 68          5250      PLA
A6D6 2097A0      5260      JSR WRITE
A6D9 2094AA      5270      JSR TESOPT
A6DC F005        5280      BEQ NOOPT
A6DE A901        5290      LDA #1
A6E0 8D6705      5300      STA DERFLG
A6E3 CE6205      5310      NOOPT DEC XBYTE
A6E6 D0DF        5320      BNE XSENLP
A6E8 AD5E05      5330      LDA CHKSUM
A6EB 2097A0      5340      JSR WRITE
A6EE EE6405      5350      INC XBLKNUM
A6F1 D003        5360      BNE BUGG2
A6F3 EE6405      5370      INC XBLKNUM
A6F6 A00A        5380      BUGG2 LDY #10
A6F8 A514        5390      LUP LDA 20
A6FA C514        5400      LUPNOW CMP 20
A6FC F0FC        5410      BEQ LUPNOW
A6FE 88          5420      DEY
A6FF D0F7        5430      BNE LUP
A701 4C3AA6      5440      JMP SENREC
                    5450      ; GET A RECORD FROM DISK OR
                    5460      ; MEMORY AND PUT IT IN THE XMBUFF
                    5470      ; AND PAD THE
                    5480      ; SET 'Y' TO
                    5490      ; 1 IF RECORD IN BUFF
                    5500      ; 0 EOF
A704 AD6305      5510      GREC LDA LASTREC
A707 F003        5520      BEQ STOK
A709 A000        5530      LDY #0
A70B 60          5540      RTS
A70C A980        5550      STOK LDA #128
A70E 8D6205      5560      STA XBYTE
A711 200CA5      5570      STOK2 JSR NOINCH
A714 08          5580      PHP
A715 AC6205      5590      LDY XBYTE
A718 99D904      5600      STA XMBUFF,Y
A71B 28          5610      PLP
A71C 1025        5620      BPL MOCHR
A71E AD9004      5630      LDA DISKF      ; FIX IT LAST CHAR FROM MEM IS NOT GOOD
A721 D008        5640      BNE DONT
A723 C8          5650      INY
A724 C081        5660      CPY #129      ; IS THE LAST CHAR THE START OF A NEW REC
A726 D003        5670      BNE DONT      ; WERE OK

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5680 ;THIS IS A BAD REC SO RETURN
A728 A000 5690 LDY #0
A72A 60 5700 RTS
A72B 88 5710 DONT DEY
A72C F00F 5720 BEQ RTFOL
A72E 8C6205 5730 STY XBYTE
A731 A980 5740 LDA #128
A733 38 5750 SEC
A734 ED6205 5760 SBC XBYTE
A737 99D904 5770 PADLOP STA XMBUFF,Y
A73A 88 5780 DEY
A73B D0FA 5790 BNE PADLOP
A73D A001 5800 RTFOL LDY #1
A73F 8C6305 5810 STY LASTREC
A742 60 5820 RTS
A743 CE6205 5830 MOCHR DEC XBYTE
A746 D0C9 5840 BNE STOK2
A748 A001 5850 LDY #1
A74A 60 5860 RTS
A74B 9B535441 5870 XMES1 .BYTE 155,"STARTING XMODEM DOWNLOAD"
A74F 5254494E
A753 4720584D
A757 4F44454D
A75B 20444F57
A75F 4E4C4F41
A763 44
A764 9B9B3E3E 5880 XMES3 .BYTE 155,155,">>TRANSFERING BLOCK# "
A768 5452414E
A76C 53464552
A770 494E4720
A774 424C4F43
A778 4B2320
A77B 9B454E44 5890 XMES4 .BYTE 155,"END OF XMODEM TRANSFER",%FD,155
A77F 204F4620
A783 584D4F44
A787 454D2054
A78B 52414E53
A78F 464552FD
A793 9B
A794 9B464154 5900 XMES5 .BYTE 155,"FATAL ERROR- XMODEM TRANSFER ABORTED",%FD
,155
A798 414C2045
A79C 52524F52
A7A0 2D20584D
A7A4 4F44454D
A7A8 20545241
A7AC 4E534645
A7B0 52204142
A7B4 4F525445
A7B8 44FD9B
A7BB 9B535441 5910 XMES6 .BYTE 155,"STARTING XMODEM UPLOAD"
A7BF 5254494E
A7C3 4720584D
A7C7 4F44454D
A7CB 2055504C
A7CF 4F4144
A7D2 9B534156 5920 XMES7 .BYTE 155,"SAVE ON",%FD,155
A7D6 45204F4E
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A7DA FD9B
A7DC 9B534156
A7E0 45204F46
A7E4 46FD9B
A7E7
A7E7 A240
A7E9 A9D2
A7EB 9D4403
A7EE A9A7
A7F0 9D4503
A7F3 A90B
A7F5 9D4203
A7F8 A90A
A7FA 9D4803
A7FD 2056E4
A800 60
A801 A240
A803 A9DC
A805 9D4403
A808 A9A7
A80A 9D4503
A80D A90B
A80F 9D4203
A812 A90B
A814 9D4803
A817 2056E4
A81A 60
A81B A240
A81D A94B
A81F 9D4403
A822 A9A7
A824 9D4503
A827 A90B
A829 9D4203
A82C A919
A82E 9D4803
A831 2056E4
A834 60
A835 A240
A837 A9BB
A839 9D4403
A83C A9A7
A83E 9D4503
A841 A90B
A843 9D4203
A846 A917
A848 9D4803
A84B 2056E4
A84E 60
A84F 201BA8
A852 A901
A854 8D6405
A857 A915
A859 2097A0
A85C A90A
A85E 8D5E05
A861 204BAA
A864 100B

5930 XMES8 .BYTE 155,"SAVE OFF", $FD,155

5940 XMES9
5950 FXMES7 LDX ##40
5960 LDA # <XMES7
5970 STA ICBAL,X
5980 LDA # >XMES7
5990 STA ICBAL,X
6000 LDA ##0B
6010 STA ICCOM,X
6020 LDA #[XMES8-XMES7]
6030 STA ICBLL,X
6040 JSR CIOV
6050 RTS
6060 FXMES8 LDX ##40
6070 LDA # <XMES8
6080 STA ICBAL,X
6090 LDA # >XMES8
6100 STA ICBAL,X
6110 LDA ##0B
6120 STA ICCOM,X
6130 LDA #[XMES9-XMES8]
6140 STA ICBLL,X
6150 JSR CIOV
6160 RTS
6170 FXMES1 LDX ##40 ; PRINT XMES1
6180 LDA # <XMES1
6190 STA ICBAL,X
6200 LDA # >XMES1
6210 STA ICBAL,X
6220 LDA ##0B
6230 STA ICCOM,X
6240 LDA #[XMES3-XMES1]
6250 STA ICBLL,X
6260 JSR CIOV
6270 RTS
6280 FXMES6 LDX ##40
6290 LDA # <XMES6
6300 STA ICBAL,X
6310 LDA # >XMES6
6320 STA ICBAL,X
6330 LDA ##0B
6340 STA ICCOM,X
6350 LDA #[XMES7-XMES6]
6360 STA ICBLL,X
6370 JSR CIOV
6380 RTS
6390 XMLoad JSR FXMES1
6400 LDA #1
6410 STA XBLKNUM
6420 XRETRY LDA #NAK ; START THE DLOAD
6430 JSR WRITE
6440 GETREC LDA #10
6450 STA CHKSUM
6460 GETRTY JSR GXCHAR
6470 BPL NXTOK

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A866 CE5E05      6480      DEC CHKSUM
A869 D0F6        6490      BNE GETRTY
A86B 4C57A8      6500      JMP XRETRY
A86E D003        6510     NXTOK BNE NOPST ; OPERATOR ABORT
A870 4C6BA9      6520      JMP OPSTOP
A873 C901        6530     NOPST CMP #SOH
A875 F029        6540      BEQ GSOH
A877 C904        6550      CMP #EOT
A879 D00B        6560      BNE NREMSTO
A87B AD6B05      6570      LDA GOTREC
A87E F003        6580      BEQ NOREC3
A880 2096A9      6590      JSR SAVPREC
A883 4CDEA9      6600     NOREC3 JMP REMSTOP
A886 C918        6610     NREMSTO CMP #CAN
A888 D003        6620      BNE XBADSH
A88A 4CE4A9      6630      JMP REMABORT
A88D C915        6640     XBADSH CMP #NAK ; SEE IF THE BASTARD ECHOED MY ACK OR NAK
A88F F0D0        6650      BEQ GETRTY
A891 C906        6660      CMP #ACK
A893 F0CC        6670      BEQ GETRTY
A895 201AAA      6680      JSR XIGREC
A898 D003        6690      BNE NOST2
A89A 4C6BA9      6700      JMP OPSTOP
A89D 4C57A8      6710     NOST2 JMP XRETRY
A8A0 AD6B05      6720     GSOH LDA GOTREC
A8A3 F003        6730      BEQ NY
A8A5 2051A9      6740      JSR SAVREC
A8A8 204BAA      6750     NY JSR GXCHAR
A8AB 30AA        6760      BMI XRETRY
A8AD D003        6770      BNE NOPSTOP
A8AF 4C6BA9      6780      JMP OPSTOP
A8B2 49FF        6790     NOPSTOP EOR ##FF ; IS THE BLOCK #
A8B4 8D5D05      6800      STA XTEMP2 ; THE SAME AS
A8B7 204BAA      6810      JSR GXCHAR
A8BA 309B        6820      BMI XRETRY ; ITS COMP
A8BC D003        6830      BNE NOPST2
A8BE 4C6BA9      6840      JMP OPSTOP
A8C1 CD5D05      6850     NOPST2 CMP XTEMP2
A8C4 F00B        6860      BEQ BLKNUM
A8C6 201AAA      6870      JSR XIGREC
A8C9 D003        6880      BNE XIGOP3
A8CB 4C6BA9      6890      JMP OPSTOP
A8CE 4C57A8      6900     XIGOP3 JMP XRETRY
A8D1 49FF        6910     BLKNUM EOR ##FF
A8D3 CD6405      6920      CMP XBLKNUM ; AM I GETTING
A8D6 F021        6930      BEQ XNUMOK ; THE RIGHT BLK
A8D8 CE6405      6940      DEC XBLKNUM
A8DB CD6405      6950      CMP XBLKNUM ; IS IT SENDING THE SAME BLK AGAIN
A8DE 08          6960      PHP
A8DF EE6405      6970      INC XBLKNUM
A8E2 201AAA      6980      JSR XIGREC
A8E5 D004        6990      BNE XIG4
A8E7 2B          7000      PLP
A8E8 4C6BA9      7010      JMP OPSTOP
A8EB 2B          7020     XIG4 PLP
A8EC F003        7030      BEQ XACKCO ; IF SO ACK IT AND CONTINUE
A8EE 4CE4A9      7040      JMP REMABORT
A8F1 A906        7050     XACKCO LDA #ACK

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A8F3	2097A0	7060	JSR WRITE
A8F6	4C5CA8	7070	JMP GETREC
A8F9	20CFAA	7080	XNUMOK JSR PBLKNUM
A8FC	A280	7090	LDX #128
A8FE	A900	7100	LDA #0
A900	8D5E05	7110	STA CHKSUM
A903	8E5D05	7120	XMLOP STX XTEMP2
A906	204BAA	7130	JSR GXCHAR
A909	1003	7140	BPL XOK2
A90B	2057A8	7150	JSR XRETRY
A90E	F05B	7160	XOK2 BEQ OPSTOP
A910	AE5D05	7170	LDX XTEMP2
A913	48	7180	PHA
A914	18	7190	CLC
A915	6D5E05	7200	ADC CHKSUM
A918	8D5E05	7210	STA CHKSUM
A91B	68	7220	PLA
A91C	9DD904	7230	STA XMBUFF,X
A91F	CA	7240	DEX
A920	D0E1	7250	BNE XMLOP
A922	204BAA	7260	JSR GXCHAR
A925	1003	7270	BPL XOK1
A927	4C57A8	7280	JMP XRETRY
A92A	F03F	7290	XOK1 BEQ OPSTOP
A92C	CD5E05	7300	CMF CHKSUM
A92F	F008	7310	BEQ GOODREC
A931	A900	7320	LDA #0
A933	8D6B05	7330	STA GOTREC
A936	4C57A8	7340	JMP XRETRY
A939	A901	7350	GOODREC LDA #1
A93B	8D6B05	7360	STA GOTREC
A93E	A906	7370	LDA #ACK
A940	2097A0	7380	JSR WRITE
A943	EE6405	7390	INC XBLKNUM
A946	AD6405	7400	LDA XBLKNUM ;THESE ARE SO
A949	D003	7410	BNE BUGG1 ;XBLKNUM WRAPS
A94B	EE6405	7420	INC XBLKNUM ;TO 1,NOT 0!
A94E	4C5CA8	7430	BUGG1 JMP GETREC
A951	A280	7440	SAVREC LDX #128
A953	8E6205	7450	STX XBYTE
A956	AE6205	7460	RECLOP LDX XBYTE
A959	BDD904	7470	LDA XMBUFF,X
A95C	48	7480	PHA
A95D	206AA4	7490	JSR KEEPER
A960	AD9204	7500	LDA LOADF
A963	F006	7510	BEQ OPSTOP
A965	CE6205	7520	DEC XBYTE
A968	D0EC	7530	BNE RECLOP
A96A	60	7540	RTS
A96B	AD6505	7550	OPSTOP LDA BFPTS
A96E	85CC	7560	STA BUFPTR
A970	8D8604	7570	STA MAXTOP
A973	AD6605	7580	LDA BFPTS+1
A976	85CD	7590	STA BUFPTR+1
A978	8D8704	7600	STA MAXTOP+1
A97B	AD9004	7610	LDA DISKF
A97E	F003	7620	BEQ NODSK
A980	200CAB	7630	JSR DSKFIX

A983	A901	7640	NODSK LDA #1
A985	8D6105	7650	STA KEYTOG
A988	201AAA	7660	JSR XIGREC
A98B	A918	7670	LDA #CAN
A98D	2097A0	7680	JSR WRITE
A990	2000AA	7690	JSR EOTMES
A993	4CBCAA	7700	JMP XMEXIT
A996	A201	7710	SAVREC LDX #1
A998	BDD904	7720	LDA XMBUFF, X
A99B	30B4	7730	BMI SAVREC
A99D	C97F	7740	CMP #127
A99F	D008	7750	BNE MOAN
A9A1	A901	7760	LDA #1
A9A3	8D6B05	7770	STA GOTREC
A9A6	4CBEA9	7780	JMP SAV
A9A9	8D6205	7790	MOAN STA XBYTE
A9AC	A980	7800	LDA #128
A9AE	38	7810	SEC
A9AF	ED6205	7820	SBC XBYTE
A9B2	8D6B05	7830	STA GOTREC
A9B5	AA	7840	TAX
A9B6	BDD904	7850	LDA XMBUFF, X
A9B9	CD6205	7860	CMP XBYTE
A9BC	D093	7870	BNE SAVREC
A9BE	A280	7880	SAV LDX #128
A9C0	8E6205	7890	STX XBYTE
A9C3	AE6205	7900	LZF LDX XBYTE
A9C6	BDD904	7910	LDA XMBUFF, X
A9C9	48	7920	FHA
A9CA	206AA4	7930	JSR KEEPER
A9CD	AD9204	7940	LDA LOADF
A9D0	F099	7950	BEG OPSTOP
A9D2	CE6205	7960	DEC XBYTE
A9D5	AD6205	7970	LDA XBYTE
A9D8	CD6B05	7980	CMP GOTREC
A9DB	D0E6	7990	BNE LZF
A9DD	60	8000	RTS
A9DE		8010	REMSTOP
A9DE	2000AA	8011	JSR EOTMES
A9E1	4CBCAA	8020	JMP XMEXIT
A9E4		8030	REMAORT
A9E4	A90B	8031	LDA #\$0B
A9E6	A240	8040	LDX #\$40
A9E8	9D4203	8050	STA ICCOM, X
A9EB	A994	8060	LDA # <XMES5
A9ED	9D4403	8070	STA ICBAL, X
A9F0	A9A7	8080	LDA # >XMES5
A9F2	9D4503	8090	STA ICBAL, X
A9F5	A927	8100	LDA #[XMES6-XMES5]
A9F7	9D4803	8110	STA ICBLL, X
A9FA	2056E4	8120	JSR CIOV
A9FD	4C6BA9	8130	JMP OPSTOP
AA00	A90B	8140	EOTMES LDA #\$0B
AA02	A240	8150	LDX #\$40
AA04	9D4203	8160	STA ICCOM, X
AA07	A97B	8170	LDA # <XMES4
AA09	9D4403	8180	STA ICBAL, X
AA0C	A9A7	8190	LDA # >XMES4



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AA0E 9D4503      8200      STA ICBAN,X
AA11 A919        8210      LDA #25
AA13 9D4803      8220      STA ICBLL,X
AA16 2056E4      8230      JSR CIOV
AA19 60          8240      RTS
                  8250      ;
                  8260      ;WAIT FOR A ONE SECOND SPACE
                  8270      ;BETWEEN CHARACTERS AND THEN
                  8280      ;RETURN OR ABORT WITH OPTION KEY
                  8290      ;
                  8300      ; 'Y'=
                  8310      ; 0 ABORT WITH OPTION KEY
                  8320      ; 1 ONE SECOND HAS ELAPSED
                  8330      ;
AA1A A93E        8340      XIGREC LDA #62
AA1C 8D5B05      8350          STA XTEMP
AA1F 2094AA      8360      XIGRC1 JSR TESOPT
AA22 F003        8370          BEQ TST2
AA24 A000        8380          LDY #0
AA26 60          8390          RTS
AA27 A9FE        8400      TST2 LDA ##FE
AA29 CDB604      8410          CMP INPBFFT
AA2C F00B        8420          BEQ NOCHAR
AA2E 2094A0      8430          JSR READ
AA31 2074AA      8440          JSR PIT
AA34 A93D        8450          LDA #61
AA36 8D5B05      8460          STA XTEMP
AA39 A514        8470      NOCHAR LDA 20
AA3B CD5C05      8480          CMP XTEMP1
AA3E F0DF        8490          BEQ XIGRC1
AA40 8D5C05      8500          STA XTEMP1
AA43 CE5B05      8510          DEC XTEMP
AA46 D0D7        8520          BNE XIGRC1
AA48 A001        8530          LDY #1
AA4A 60          8540          RTS
                  8550      ;GET A CHAR FROM THE MODEM WHEN
                  8560      ;AVAIL OR ABORT WITH OPTION KEY
                  8570      ; 'Y'=
                  8580      ; 1 OK CHAR IN A REG
                  8590      ; 0 OPTION KEY ABORT
                  8600      ; $80 OVER 1 SECOND ABORT
AA4B A93E        8610      GXCHAR LDA #62
AA4D 8D5B05      8620          STA XTEMP
AA50 2094AA      8630      GXC JSR TESOPT ; IS OPTION KEY DOWN
AA53 F003        8640          BEQ TSTBUF
AA55 A000        8650          LDY #0
AA57 60          8660          RTS
AA58 A9FE        8670      TSTBUF LDA ##FE
AA5A CDB604      8680          CMP INPBFFT
AA5D D012        8690          BNE INCHAR
AA5F A514        8700          LDA 20
AA61 CD5C05      8710          CMP XTEMP1
AA64 F0EA        8720          BEQ GXC
AA66 8D5C05      8730          STA XTEMP1
AA69 CE5B05      8740          DEC XTEMP
AA6C D0E2        8750          BNE GXC
AA6E A080        8760          LDY ##80
AA70 60          8770          RTS

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AA71 2094A0      8780 INCHAR JSR READ
AA74 48          8790 PIT PHA
AA75 A901        8800     LDA #1
AA77 8DFE02      8810     STA DSPFLG
AA7A A90B        8820     LDA ##0B
AA7C A240        8830     LDX ##40
AA7E 9D4203      8840     STA ICCOM,X
AA81 A900        8850     LDA #0
AA83 9D4803      8860     STA ICBLL,X
AA86 68          8870     PLA
AA87 48          8880     PHA
AA88 2056E4      8890     JSR CIOV
AA8B A900        8900     LDA #0
AA8D 8DFE02      8910     STA DSPFLG
AA90 68          8920     PLA
AA91 A001        8930     LDY #1
AA93 60          8940     RTS
                8950 ;
                8960 ;
                8970 ; IS THE OPTION KEY DOWN.
                8980 ; 'Y'=1 YES
                8990 ; 'Y'=0 NO
                9000 ;
AA94 A9F8        9010 TESOFT LDA ##F8
AA96 8D1FD0      9020     STA CONSOL
AA99 AD6105      9030     LDA KEYTOG
AA9C F00C        9040     BEQ INTEST
AA9E A904        9050     LDA #4
AAA0 2D1FD0      9060     AND CONSOL
AAA3 F005        9070     BEQ INTEST
AAA5 A900        9080     LDA #0
AAA7 8D6105      9090     STA KEYTOG
AAAA AD6105      9100 INTEST LDA KEYTOG
AAD AD00A        9110     BNE NOTNOW
AAAF A904        9120     LDA #4
AAB1 2C1FD0      9130     BIT CONSOL
AAB4 D003        9140     BNE NOTNOW
AAB6 A001        9150     LDY #1
AAB8 60          9160     RTS
AAB9 A000        9170 NOTNOW LDY #0
AABB 60          9180     RTS
                9190 ;
AABC A900        9200 XMEXIT LDA #0
AABE 8DC802      9210     STA 712
AAC1 8D9204      9220     STA LOADF
AAC4 8D9304      9230     STA SAVEF
AAC7 A230        9240     LDX ##30
AAC9 2029AB      9250     JSR CIOCB ;CLOSE DISK BUG
AACC 4C24A3      9260     JMP LOOP3
                9270 ;
                9280 ;PRINT XMES3 AND BLOCK # IN A
                9290 ;
AACF 85D4        9300 FBLKNUM STA FRO ; PRINT BLOCK #
AAD1 A900        9310     LDA #0
AAD3 85D5        9320     STA FRO+1
AAD5 20AAD9      9330     JSR IFF
AAD8 20E6D8      9340     JSR FASC
AADB A240        9350     LDX ##40

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AADD A964      9360      LDA # <XMES3
AADF 9D4403    9370      STA ICBAL,X
AAE2 A9A7      9380      LDA # >XMES3
AAE4 9D4503    9390      STA ICBAL,X
AAE7 A917      9400      LDA #23
AAE9 9D4803    9410      STA ICBLL,X
AAEC A90B      9420      LDA #$0B
AAEE 9D4203    9430      STA ICCOM,X
AAF1 2056E4    9440      JSR CIOV
AAF4 20BCB1    9450      JSR PASC
AAF7 A240      9460      LDX #$40
AAF9 A90B      9470      LDA #$0B
AAFB 9D4203    9480      STA ICCOM,X
AAFE A900      9490      LDA #0
AB00 9D4803    9500      STA ICBLL,X
AB03 9D4903    9510      STA ICBLLH,X
AB06 A99B      9520      LDA #155
AB08 2056E4    9530      JSR CIOV
AB0B 60        9540      RTS
AB0C A230      9550      DSKFIX LDX #$30
AB0E A90C      9560      LDA #$0C
AB10 9D4203    9570      STA ICCOM,X
AB13 2056E4    9580      JSR CIOV
AB16 A903      9590      LDA #$03
AB18 9D4203    9600      STA ICCOM,X
AB1B A996      9610      LDA # <BUFF
AB1D 9D4403    9620      STA ICBAL,X
AB20 A900      9630      LDA # >BUFF
AB22 9D4503    9640      STA ICBAL,X
AB25 2056E4    9650      JSR CIOV
AB28 60        9660      RTS
                9670 ;
                0310 .INCLUDE #D:OPENS.SRC
                10 ; SAVE #D2:OPENS.SRC
                20 ;
                30 ;
                40 ;CLOSE IOCB INDEXED BY X
AB29 A90C      50 CIOCB LDA #$0C ;CLOSE
AB2B 9D4203    60      STA ICCMD,X
AB2E 2056E4    70      JSR CIOV
AB31 60        80      RTS
                90 ;
                0100 ;OPEN KEYBOARD
AB32 A210      0110 OKEYB LDX #$10
AB34 2029AB    0120      JSR CIOCB ;CLOSE #1
AB37 A900      0130      LDA #0
AB39 9D4803    0140      STA ICBLL,X ;LENGTH 0
AB3C 9D4903    0150      STA ICBLLH,X
AB3F A903      0160      LDA #$03 ;OPEN
AB41 9D4203    0170      STA ICCMD,X
AB44 A904      0180      LDA #4 ;INPUT
AB46 9D4A03    0190      STA ICAX1,X
AB49 A981      0200      LDA # <KEYB
AB4B 9D4403    0210      STA ICBAL,X
AB4E A9AB      0220      LDA # >KEYB
AB50 9D4503    0230      STA ICBAL,X
AB53 2056E4    0240      JSR CIOV
AB56 60        0250      RTS

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0260 ;
0270 ;OPEN EDITOR TO I/O
0280 OEDIT LDX ##40 ;IOCB #4
AB57 A240 0290 JSR CIOCB
AB59 2029AB 0300 LDA ##03 ;OPEN
AB5C A903 0310 STA ICCMD,X
AB5E 9D4203 0320 LDA #12 ;I/O
AB61 A90C 0330 STA ICAX1,X
AB63 9D4A03 0340 LDA # <EDIT
AB66 A983 0350 STA ICBAL,X
AB68 9D4403 0360 LDA # >EDIT
AB6B A9AB 0370 STA ICBAH,X
AB6D 9D4503 0380 JSR CIOV
AB70 2056E4 0390 LDA #0
AB73 A900 0400 STA $02C6 ;SCREEN
AB75 8DC602 0410 STA $02C8 ;BORDER
AB78 8DC802 0420 LDA ##08 ;
AB7B A908 0430 STA $02C5 ;CHARACTERS
AB7D 8DC502 0440 RTS
AB80 60 0450 KEYB .BYTE "K",155
AB81 4B9B 0460 EDIT .BYTE "E",155
AB83 459B 0320 .INCLUDE #D:BUFFERS.SRC
10 ; SAVE #D2:BUFFERS.SRC
20 ;
30 ;
40 ;BUFFER HANDLER FOR SMART TERMINAL
50 ;BUFFNUM = # OF BUFFERS
60 NEWBUFF LDA BUFFNUM
70 CMP #8
80 BEQ TOMANY
90 LDA TOPBUF+1
0100 CMP MAXTOP+1
0110 BCC TOMANY
0120 BNE BUFOK
0130 LDA TOPBUF
0140 CMP MAXTOP
0150 BCC TOMANY
0160 BEQ TOMANY
0170 BUFOK LDY #0
0180 LDA ##20
0190 STA (BUFPTR),Y
0200 INC BUFPTR
0210 BNE INCRND
0220 INC BUFPTR+1
0230 INCRND INC BUFFNUM
0240 LDA BUFFNUM
0250 JSR BINDEX
0260 LDA BUFPTR
0270 STA BUFFER,Y
0280 STA MAXTOP
0290 LDA BUFPTR+1
0300 STA BUFFER+1,Y ;NEW BOTTOM
0310 STA MAXTOP+1
0320 JMP MENU
0330 TOMANY LDX ##40
0340 LDA ##0B
0350 STA ICCMD,X
0360 LDA # <TMANY

```

*border put back*

*Ritch*

```

ABD1 9D4403      0370      STA ICBAL,X
ABD4 A9AB        0380      LDA # >TMANY
ABD6 9D4503      0390      STA ICBAL,X
ABD9 A91A        0400      LDA #26
ABDB 9D4803      0410      STA ICBLL,X
ABDE 2056E4      0420      JSR CIOV
ABE1 20D4B0      0430      JSR WAITKEY
ABE4 4CDFAD      0440      JMP MENU
                  0450 ;
                  0460 ;BINDEX ENTRY A=BUFFER TO INDEX
                  0470 ;EXIT Y= BUFF,Y INDEX
                  0480 ;
ABE7 AA          0490 BINDEX TAX
ABE8 A000        0500      LDY #0
ABEA E000        0510 BLOOP CPX #0
ABEC F005        0520      BEQ INDONE
ABEE CA          0530      DEX
ABEF C8          0540      INY
ABFO C8          0550      INY
ABF1 D0F7        0560      BNE BLOOP
ABF3 60          0570 INDONE RTS
ABF4 9BFD2A2A    0580 TMANY .BYTE 155,$FD,"*** OUT OF BUFFERS ***",155,155
ABF8 2A204F55
ABFC 54204F46
AC00 20425546
AC04 46455253
AC08 202A2A2A
AC0C 9B9B
                  0590 ;
                  0330      .INCLUDE #D:EDITOR.SRC
                  10 ; SAVE #D2:EDITOR.SRC
                  20 ;
                  30 ;
AC0E 2057AB      40 EDITOR JSR OEDIT
AC11 AD8104      50 EDITLP LDA TOPBUF+1
AC14 38          60      SEC
AC15 E901        70      SBC #1
AC17 CD8704      80      CMP MAXTOP+1
AC1A 9077        90      BCC EFULL
AC1C D00A        0100     BNE NOTFUL
AC1E AD8004      0110     LDA TOPBUF
AC21 CD8604      0120     CMP MAXTOP
AC24 906D        0130     BCC EFULL
AC26 F06B        0140     BEQ EFULL
AC28 A905        0150 NOTFUL LDA #5
AC2A 9D4203      0160     STA ICCMD,X
AC2D A97F        0170     LDA #127
AC2F 9D4803      0180     STA ICBLL,X
AC32 A900        0190     LDA #0
AC34 9D4903      0200     STA ICBLLH,X
AC37 A5CC        0210     LDA BUFPTR
AC39 9D4403      0220     STA ICBAL,X
AC3C A5CD        0230     LDA BUFPTR+1
AC3E 9D4503      0240     STA ICBAL,X
AC41 2056E4      0250     JSR CIOV
AC44 3034        0260     BMI EDERR
AC46 A9F8        0270     LDA #$F8
AC48 8D1FD0      0280     STA CONSOL

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AC4B A901      0290      LDA #1
AC4D 2D1FDO    0300      AND CONSOL
AC50 F028      0310      BEQ EDERR
AC52 BD4803    0320      LDA ICBLL,X
AC55 18        0330      CLC
AC56 65CC      0340      ADC BUFPTR
AC58 85CC      0350      STA BUFPTR
AC5A 9002      0360      BCC NOCARRY
AC5C E6CD      0370      INC BUFPTR+1
                0380 ; PRINT LINES
AC5E A240      0390 NOCARRY LDX ##40
AC60 A909      0400      LDA #$09
AC62 9D4203    0410      STA ICCMD,X
AC65 A92B      0420      LDA #43
AC67 9D4803    0430      STA ICBLL,X
AC6A A9C5      0440      LDA # <LINE
AC6C 9D4403    0450      STA ICBAL,X
AC6F A9AC      0460      LDA # >LINE
AC71 9D4503    0470      STA ICBAL,X
AC74 2056E4    0480      JSR CIOV
AC77 4C11AC    0490      JMP EDITLP
AC7A BD4803    0500 EDERR LDA ICBLL,X
AC7D 18        0510      CLC
AC7E 65CC      0520      ADC BUFPTR
AC80 85CC      0530      STA BUFPTR
AC82 9002      0540      BCC NOCAR1
AC84 E6CD      0550      INC BUFPTR+1
AC86 A5CC      0560 NOCAR1 LDA BUFPTR
AC88 8D8604    0570      STA MAXTOP
AC8B A5CD      0580      LDA BUFPTR+1
AC8D 8D8704    0590      STA MAXTOP+1
AC90 4CDFAD    0600      JMP MENU
AC93 A909      0610 EFULL LDA #$09
AC95 9D4203    0620      STA ICCMD,X
AC98 A92B      0630      LDA #40
AC9A 9D4803    0640      STA ICBLL,X
AC9D A9B0      0650      LDA # <MEDIT
AC9F 9D4403    0660      STA ICBAL,X
ACA2 A9AC      0670      LDA # >MEDIT
ACA4 9D4503    0680      STA ICBAL,X
ACA7 2056E4    0690      JSR CIOV
ACAA 20D4B0    0700      JSR WAITKEY
ACAD 4CDFAD    0710      JMP MENU
ACB0           0720 MEDIT
ACB0 FD2A2A2A  0730      .BYTE $FD,"*** EDITOR FULL ***",155
ACB4 20454449
ACB8 544F5220
ACBC 46554C4C
ACCO 202A2A2A
ACC4 9B
ACC5           0740 LINE
ACC5 3D3D3D3D  0750      .BYTE "===== ",155
ACC9 3D3D3D3D
ACCD 3D3D3D3D
ACD1 3D3D3D3D
ACD5 3D3D3D3D
ACD9 3D3D3D3D
ACDD 3D3D3D3D

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ACE1 3D3D3D3D  
 ACE5 3D3D3D3D  
 ACE9 3D9B

```

0760 ;
0340 ;
0350 ;
0360 ;
0370 ; DOES THIS ONCE ON BOOT-UP
0380 ;
ACEB 0390 START
0400 ;SKIP REST IF ALREADY BOOTED
ACEB A508 0410 LDA #08 ;WARMST
ACED D02B 0420 BNE WARM
ACEF A920 0430 LDA ##20 ;JSR OPCODE
ACF1 8D9904 0440 STA INIT
ACF4 A50C 0450 LDA DOSINI
ACF6 8D9A04 0460 STA INIT+1
ACF9 A50D 0470 LDA DOSINI+1
ACFB 8D9B04 0480 STA INIT+2
ACFE A999 0490 LDA # <INIT
AD00 850C 0500 STA DOSINI
AD02 A904 0510 LDA # >INIT
AD04 850D 0520 STA DOSINI+1
AD06 A920 0530 LDA ##20 ;JSR OPCODE
AD08 8D9C04 0540 STA INIT+3
AD0B A91E 0550 LDA # <INITONE
AD0D 8D9D04 0560 STA INIT+4
AD10 A9AD 0570 LDA # >INITONE
AD12 8D9E04 0580 STA INIT+5
AD15 A960 0590 LDA ##60 ;RTS
AD17 8D9F04 0600 STA INIT+6
AD1A 201EAD 0610 WARM JSR INITONE
AD1D 60 0620 RTS
0630 ;
0640 ;DO THIS ON EVERY SYSTEM RESET
0650 ;
AD1E A927 0660 INITONE LDA # <STERM
AD20 850A 0670 STA DOSVEC
AD22 A9AD 0680 LDA # >STERM
AD24 850B 0690 STA DOSVEC+1
=0001 0700 .IF PROM
0710 .ELSE
0720 LDA # <ENDPR
0730 STA $02E7
0740 LDA # >ENDPR
0750 STA $02E8 ;MEMLO+1
0760 .ENDIF
AD26 60 0770 RTS
0780 ;
0790 ;START OF TERMINAL SOFTWARE
0800 ;
AD27 0810 STERM
AD27 A902 0820 LDA #2
AD29 8552 0830 STA $52 ;RIGHT MARGIN
AD2B A945 0840 LDA #69
AD2D 8D6805 0850 STA BAUD
AD30 A21B 0860 LDX ##1B
AD32 0870 STERM.1

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46

→ ##46 = 300 Baud  
 ##45 = 308 Baud



AD32 BDD8BF	0880	LDA ROMJTABLE,X	
AD35 9DBD04	0890	STA JTABLE,X	
AD38 CA	0900	DEX	
AD39 10F7	0910	BPL STERM.1	
AD3B A900	0920	LDA #0	
AD3D 8DBA04	0930	STA PARFLG	
AD40 8D8804	0940	STA TRANF ;ZERO FLAGS	
AD43 8D8A04	0950	STA BIT8F	
AD46 8D8904	0960	STA BINF	
AD49 8D8B04	0970	STA DUPLF	
AD4C 8D9404	0980	STA FULLF	
AD4F 8DA504	0990	STA BUFFNUM	
AD52 8D8F04	1000	STA COLFLG	
AD55 8D9604	1010	STA ANSFLG	
AD58 8DA604	1020	STA DIALF	
AD5B 8DE102	1030	STA \$02E1	
AD5E 8DA704	1040	STA HANDFLG	
	1050	;SET LOW BUFFER POINTERS	
AD61 85CA	1060	STA INPBUF	
AD63 A906	1070	LDA #6	RestLO
AD65 85CB	1080	STA INPBUF+1 ;=\$600	
AD67 ADE702	1090	LDA \$02E7 ;MEMLO	
AD6A 8D8204	1100	STA BOTBUF	
AD6D 85CC	1110	STA BUFPTR	
AD6F 8580	1120	STA BUFFER	
AD71 8D8604	1130	STA MAXTOP	
AD74 ADE802	1140	LDA \$02E8	
AD77 8D8304	1150	STA BOTBUF+1	
AD7A 85CD	1160	STA BUFPTR+1	
AD7C 8581	1170	STA BUFFER+1	
AD7E 8D8704	1180	STA MAXTOP+1	
AD81 ADE502	1190	RESTRT LDA MEMTOP	Handflg Handflg RestRT
AD84 8D8004	1200	STA TOPBUF	
AD87 8D8404	1210	STA BUFMAX	
AD8A 8DA304	1220	STA DIALADD	
AD8D 85C8	1230	STA DIALBF	
AD8F ADE602	1240	LDA MEMTOP+1	
AD92 38	1250	SEC	
AD93 E902	1260	SBC #2	
AD95 8D8104	1270	STA TOPBUF+1	
AD98 8DA404	1280	STA DIALADD+1	
AD9B 85C9	1290	STA DIALBF+1	
AD9D E904	1300	SBC #4	
AD9F 8D8504	1310	STA BUFMAX+1	
ADA2 A509	1320	LDA \$09	
ADA4 F01E	1330	BEQ NOBOCOL	
ADA6 AD8F04	1340	LDA COLFLG	
ADA9 C980	1350	CMP #\$80	
ADAB D003	1360	BNE YEAH	
ADAD 4CDFAD	1370	JMP MENU	
ADB0 A9A2	1380	YEAH LDA # <M79 ;GO FOR MS232	
ADB2 8DA804	1390	STA RFNAME	
ADB5 A9BD	1400	LDA # >M79	
ADB7 8DA904	1410	STA RFNAME+1	
ADBA 2000A0	1420	JSR GETHDR	
ADBD 3005	1430	BMI NOBOCOL	
ADBF A901	1440	LDA #\$01	
ADC1 8DA704	1450	STA HANDFLG	

JSR RestLO

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ADC4 208BA0      1460 NOB0COL JSR MODINIT
ADC7 209DA0      1470      JSR ONHOOK
ADCA A000        1480      LDY #0
ADCC A99B        1490 CRLOOP LDA #155
ADCE 91C8        1500      STA (DIALBF),Y
ADD0 C8          1510      INY
ADD1 C0FC        1520      CPY #252
ADD3 D0F7        1530      BNE CRLOOP
ADD5 A509        1540      LDA #09      ;BOOT?
ADD7 F003        1550      BEQ CASBT
ADD9 2066BC      1560      JSR LDNUM
ADDC 208EA0      1570 CASBT JSR OPEN      ;MODEM
                  1580      ;
                  1590 ;PRINT MENU WITH OPTIONS
                  1600      ;
ADDF 78          1610 MENU SEI
ADE0 A510        1620      LDA #10      ;POKMSK
ADE2 0980        1630      ORA ##80      ;ENABLE BRK KEY
ADE4 8510        1640      STA #10
ADE6 8D0ED2      1650      STA IRGEN
ADE9 58          1660      CLI
ADEA A940        1670      LDA ##40
ADEC 8DBE02      1680      STA #02BE      ;CAPS LOCK
ADEF A900        1690      LDA #0
ADF1 8DB602      1700      STA #02B6      ;NO INVERSE
ADF4 8D9204      1710      STA LOADF
ADF7 8D9304      1720      STA SAVEF
ADFA 8D8D04      1730      STA SAVMOD
ADFD 8D9004      1740      STA DISKF
AE00 8D8C04      1750      STA CASFLG
AE03 8D9504      1760      STA DPRFLG
AE06 8D6C05      1770      STA PHONE
AE09 8D6D05      1780      STA OPFLG
AE0C AD8604      1790      LDA MAXTOP
AE0F 85CC        1800      STA BUFPTR
AE11 AD8704      1810      LDA MAXTOP+1
AE14 85CD        1820      STA BUFPTR+1
AE16 ADA604      1830      LDA DIALF
AE19 D00B        1840      BNE CARND
AE1B 209AA0      1850      JSR MSTATS
AE1E D006        1860      BNE CARND
AE20 8D6C05      1870      STA PHONE
AE23 209DA0      1880      JSR ONHOOK
                  1890      ;
AE26 2057AB      1900 CARND JSR OEDIT
AE29 A9BD        1910      LDA # <[MESF-MES]
AE2B 9D4803      1920      STA ICBLL,X
AE2E A900        1930      LDA # >[MESF-MES]
AE30 9D4903      1940      STA ICBLLH,X
AE33 A950        1950      LDA # <MES
AE35 9D4403      1960      STA ICBAL,X
AE38 A9B8        1970      LDA # >MES
AE3A 9D4503      1980      STA ICBALH,X
AE3D A90B        1990      LDA ##0B      ;PUT CHARS
AE3F 9D4203      2000      STA ICCMD,X
AE42 2056E4      2010      JSR CIOV      ;PRINT 1ST PART
AE45 3098        2020      BMI MENU
                  2030      ;

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AE47	A90D	2040	LDA # <MESF	
AE49	85D0	2050	STA PRPTR	
AE4B	A9B9	2060	LDA # >MESF	
AE4D	85D1	2070	STA PRPTR+1	
AE4F	AD8B04	2080	LDA DUPLF	
AE52	D00C	2090	BNE F1	
AE54	A904	2100	LDA #4	
AE56	8D9704	2110	STA INVST	
AE59	A908	2120	LDA #8	
AE5B	8D9804	2130	STA INVEND	
AE5E	D00A	2140	BNE GO	
AE60	A909	2150	F1 LDA #9	
AE62	8D9704	2160	STA INVST	
AE65	A90D	2170	LDA #13	
AE67	8D9804	2180	STA INVEND	
AE6A	204DAF	2190	GO JSR PROPT	
AE6D	A922	2200	HO LDA # <MESH	
AE6F	85D0	2210	STA PRPTR	
AE71	A9B9	2220	LDA # >MESH	
AE73	85D1	2230	STA PRPTR+1	
AE75	AD8B04	2240	LDA TRANF	
AE78	D00C	2250	BNE H1	
AE7A	A904	2260	LDA #4	
AE7C	8D9704	2270	STA INVST	
AE7F	A909	2280	LDA #9	
AE81	8D9804	2290	STA INVEND	
AE84	D00A	2300	BNE IO	
AE86	A90A	2310	H1 LDA #10	
AE88	8D9704	2320	STA INVST	
AE8B	A911	2330	LDA #17	
AE8D	8D9804	2340	STA INVEND	
AE90	204DAF	2350	IO JSR PROPT	
AE93	A934	2360	LDA # <MESI	
AE95	85D0	2370	STA PRPTR	
AE97	A9B9	2380	LDA # >MESI	
AE99	85D1	2390	STA PRPTR+1	
AE9B	AD8904	2400	LDA BINF	
AE9E	D00C	2410	BNE I1	
AEA0	A904	2420	LDA #4	
AEA2	8D9704	2430	STA INVST	
AEA5	A906	2440	LDA #6	
AEA7	8D9804	2450	STA INVEND	
EEAA	D00A	2460	BNE JO	
AEAC	A907	2470	I1 LDA #7	
AEAE	8D9704	2480	STA INVST	
AEB1	A90E	2490	LDA #14	
AEB3	8D9804	2500	STA INVEND	
AEB6	204DAF	2510	JO JSR PROPT	
AEB9	A94C	2520	LDA # <MESJ	
AEBB	85D0	2530	STA PRPTR	
AEBD	A9B9	2540	LDA # >MESJ	
AEBF	85D1	2550	STA PRPTR+1	
AEC1	AD8F04	2560	LDA COLFLG	
AEC4	301A	2570	BMI J2	;80 COLUMNS
AEC6	D00C	2580	BNE J1	;40 COLUMNS
AEC8	A904	2590	LDA #4	
AECA	8D9704	2600	STA INVST	
AECD	A906	2610	LDA #6	

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AECF 8D9804      2620      STA INVEND
AED2 D016        2630      BNE KO
AED4 A907        2640 J1    LDA #7
AED6 8D9704      2650      STA INVST
AED9 A909        2660      LDA #9
AEDB 8D9804      2670      STA INVEND
AEDE D00A        2680      BNE KO
AEE0 A90A        2690 J2    LDA #10
AEE2 8D9704      2700      STA INVST
AEE5 A912        2710      LDA #18
AEE7 8D9804      2720      STA INVEND
AEEA 204DAF      2730 KO    JSR PROPT
AEED A909        2740      LDA #9
AEEF 20B8BD      2750      JSR PLINE
AEF2 A90A        2760      LDA #10
AEF4 20B8BD      2770      JSR PLINE
AEF7 A90B        2780      LDA #11
AEF9 20B8BD      2790      JSR PLINE
AEFC A966        2800      LDA # <MESP
AEFE 85D0        2810      STA PRPTR
AF00 A9B9        2820      LDA # >MESP
AF02 85D1        2830      STA PRPTR+1
AF04 ADBA04      2840      LDA PARFLG
AF07 301A        2850      BMI K2          ;EVEN PARITY
AF09 F00C        2860      BEQ K1          ;NO
AF0B A907        2870      LDA #7          ;ELSE ODD
AF0D 8D9704      2880      STA INVST
AF10 A90A        2890      LDA #10
AF12 8D9804      2900      STA INVEND
AF15 D016        2910      BNE TO
AF17 A904        2920 K1    LDA #4
AF19 8D9704      2930      STA INVST
AF1C A906        2940      LDA #6
AF1E 8D9804      2950      STA INVEND
AF21 D00A        2960      BNE TO
AF23 A90B        2970 K2    LDA #11
AF25 8D9704      2980      STA INVST
AF28 A90F        2990      LDA #15
AF2A 8D9804      3000      STA INVEND
AF2D 204DAF      3010 TO    JSR PROPT
AF30 A90C        3020      LDA #12
AF32 20B8BD      3030      JSR PLINE
AF35 A90D        3040      LDA #13
AF37 20B8BD      3050      JSR PLINE
AF3A 2039B1      3060      JSR BUFFSZ ;? BUFFER SIZE
AF3D 20B1B5      3070      JSR BUFUSED
AF40 A90E        3080      LDA #14
AF42 20B8BD      3090      JSR PLINE
3100 ;
3110 ;GET CHOICE FROM KEYBOARD
3120 ;
3130 GCHCE JSR GETKEY
3140      BPL GCHK
3150 MENU1 JMP MENU
3160 ;
3170 ;PRINT OPTIONS SUBROUTINE
3180 ; PRPTR= START OF MESSAGE
3190 ;
AF45 2002BD      3130
AF48 1032        3140
AF4A 4CDFAD      3150

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AF4D A000      3200 PROPT LDY #0
AF4F 98        3210 INVLP TYA
AF50 48        3220     PHA
AF51 A900      3230     LDA #0
AF53 9D4803    3240     STA ICBLL,X
AF56 9D4903    3250     STA ICBLLH,X
AF59 A90B      3260     LDA #$0B
AF5B 9D4203    3270     STA ICCMD,X
AF5E B1D0      3280     LDA (PRPTR),Y
AF60 48        3290     PHA
AF61 CC9704    3300     CPY INVST
AF64 3007      3310     BMI NOINV
AF66 CC9804    3320     CPY INVEND
AF69 1002      3330     BPL NOINV
AF6B 0980      3340     ORA #$80      ;MAKE INVERSE
AF6D 2056E4    3350 NOINV JSR CIOV  ;PRINTIT
AF70 68        3360     PLA
AF71 C99B      3370     CMP #155
AF73 F005      3380     BEQ INVDONE
AF75 68        3390     PLA
AF76 A8        3400     TAY
AF77 C8        3410     INY
AF78 D0D5      3420     BNE INVLP
AF7A 68        3430 INVDONE PLA
AF7B 60        3440     RTS
                3450 ;EXECUTE CHOICE
                3460 ;
AF7C           3470 GCHOK
AF7C C941      3480     CMP #'A
AF7E D003      3490     BNE CB
AF80 4C59B0    3500     JMP DIRECT
AF83 C942      3510 CB    CMP #'B
AF85 D003      3520     BNE CC
AF87 4CD9B5    3530     JMP DIRDISK
AF8A C943      3540 CC    CMP #'C
AF8C D003      3550     BNE CD
AF8E 4C30B2    3560     JMP COPYBF
AF91 C944      3570 CD    CMP #'D
AF93 D003      3580     BNE CE
AF95 4CE8B1    3590     JMP DELBF
AF98 C945      3600 CE    CMP #'E
AF9A D003      3610     BNE CF
AF9C 4C85AB    3620     JMP NEWBUFF
AF9F C946      3630 CF    CMP #'F
AFA1 D00B      3640     BNE CH1
AFA3 A901      3650     LDA #1
AFA5 4D8B04    3660     EOR DUPLF
AFA8 8D8B04    3670     STA DUPLF
AFAB 4CDFAD    3680     JMP MENU
AFAE C948      3690 CH1  CMP #'H
AFB0 D00E      3700     BNE CI
AFB2 A901      3710     LDA #1
AFB4 4D8804    3720     EOR TRANF
AFB7 8D8804    3730     STA TRANF
AFBA 8D8A04    3740     STA BIT8F
AFBD 4CDFAD    3750 JMEN JMP MENU
AFC0 C949      3760 CI    CMP #'I
AFC2 D00B      3770     BNE CJ

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AFC4 A901      3780      LDA #1
AFC6 4D8904    3790      EOR BINF
AFC9 8D8904    3800      STA BINF
AFCC 4CDFAD    3810      JMP MENU
AFCF C94A      3820 CJ    CMP #'J
AFD1 D03D      3830      BNE CK
AFD3 AD8F04    3840      LDA COLFLG
AFD6 3017      3850      BMI BMENU ;ALREADY BOOTED
AFD8 D018      3860      BNE Z80COL
AFDA 4901      3870      EOR #1
AFDC 8D8F04    3880      STA COLFLG ;=1
AFDF A900      3890      LDA #0
AFE1 8552      3900      STA $52
AFE3 4CDFAD    3910      JMP MENU
AFE6 A902      3920 Z38COL LDA #2
AFE8 8552      3930      STA $52
AFEA A900      3940      LDA #0
AFEC 8D8F04    3950      STA COLFLG ;=0
AFEF 4CDFAD    3960 BMENU JMP MENU
AFF2 A509      3970 Z80COL LDA $09
AFF4 F017      3980      BEQ NOOPN1
AFF6 A9AE      3990      LDA # <M80 ;GET MVIEW
AFF8 8DA804    4000      STA RFNAME
AFFB A9BD      4010      LDA # >M80
AFFD 8DA904    4020      STA RFNAME+1
B000 2000A0    4030      JSR GETHDR
B003 3008      4040      BMI NOOPN1
B005 A980      4050      LDA #$80
B007 8D8F04    4060      STA COLFLG
B00A 4C81AD    4070      JMP RESTRT ;RESET MTOP,BUFS
B00D 4CE6AF    4080 NOOPN1 JMP Z38COL
B010 C94B      4090 CK    CMP #'K
B012 D003      4100      BNE CL
B014 4C3CB7    4110      JMP DIRPR
B017 C94C      4120 CL    CMP #'L
B019 D003      4130      BNE CM
B01B 4CABB3    4140      JMP LOADBF
B01E C94D      4150 CM    CMP #'M
B020 D003      4160      BNE CP
B022 4C7EBA    4170      JMP DIAL
B025 C950      4180 CP    CMP #'P
B027 D01F      4190      BNE CT
B029 A900      4200      LDA #0
B02B 8D8B04    4210      STA TRANF
B02E 8D8A04    4220      STA BIT8F
B031 AD8A04    4230      LDA PARFLG
B034 300A      4240      BMI CPO
B036 F004      4250      BEQ CP1
B038 A980      4260      LDA #$80
B03A D006      4270      BNE CPSTR
B03C A901      4280 CP1   LDA #1
B03E D002      4290      BNE CPSTR
B040 A900      4300 CPO   LDA #0
B042 8DBA04    4310 CPSTR STA PARFLG
B045 4CDFAD    4320      JMP MENU
B048 C954      4330 CT    CMP #'T
B04A F007      4340      BEQ TERM1
B04C C956      4350      CMP #'V

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B04E F006      4360      BEQ CHBAUD
B050 4C45AF    4370      JMP GCHCE
B053 4C02B5    4380 TERM1 JMP TERM2
B056 4C66B7    4390 CHBAUD JMP VBAUD
                4400 ;
                4410 ;DISK DIRECTORY
                4420 ;
B059 2091A0    4430 DIRECT JSR CLOSE ;CLOSE MODEM
B05C 2057AB    4440      JSR OEDIT
B05F A230      4450      LDX ##30      ;IOCB #3
B061 2029AB    4460      JSR CIOCB
B064 A903      4470      LDA #COPEN  ;OPEN DIR
B066 9D4203    4480      STA ICCMD,X
B069 A906      4490      LDA #6
B06B 9D4A03    4500      STA ICAX1,X
B06E A900      4510      LDA #0
B070 9D4B03    4520      STA ICAX2,X
B073 A978      4530      LDA # <DISKM
B075 9D4403    4540      STA ICBAL,X
B078 A9BA      4550      LDA # >DISKM
B07A 9D4503    4560      STA ICBAL,X
B07D 2056E4    4570      JSR CIOV      ;OPEN IT!!
B080 3039      4580      BMI DIRERR
B082 A230      4590 PDIR LDX ##30
B084 A996      4600      LDA # <BUFF
B086 9D4403    4610      STA ICBAL,X
B089 A900      4620      LDA # >BUFF
B08B 9D4503    4630      STA ICBAL,X
B08E A905      4640      LDA #CGETR  ;GET RECORD
B090 9D4203    4650      STA ICCMD,X
B093 A928      4660      LDA #40      ;MAX CHR
B095 9D4803    4670      STA ICBLL,X
B098 2056E4    4680      JSR CIOV
B09B 301E      4690      BMI DIRERR ;END OF DIRECT
                4700 ;PRINT IT ON THE SCREEN
B09D A240      4710      LDX ##40      ;EDITOR
B09F A900      4720      LDA # >BUFF
B0A1 9D4503    4730      STA ICBAL,X
B0A4 A996      4740      LDA # <BUFF
B0A6 9D4403    4750      STA ICBAL,X
B0A9 A928      4760      LDA #40
B0AB 9D4803    4770      STA ICBLL,X
B0AE A909      4780      LDA #CPUTR  ;PUT RECORD
B0B0 9D4203    4790      STA ICCMD,X
B0B3 2056E4    4800      JSR CIOV
B0B6 3003      4810      BMI DIRERR
B0B8 4C82B0    4820      JMP PDIR
B0BB C003      4830 DIRERR CPY ##03
B0BD F007      4840      BEQ DIRDONE
B0BF C088      4850      CPY ##88
B0C1 F003      4860      BEQ DIRDONE
B0C3 20ECB0    4870      JSR DERROR
B0C6 A230      4880 DIRDONE LDX ##30
B0C8 2029AB    4890      JSR CIOCB
B0CB 208EA0    4900      JSR OPEN      ;OPEN MODEM
B0CE 20D4B0    4910      JSR WAITKEY
B0D1 4CDFAD    4920      JMP MENU
                4930 ;?MESSAGE AND WAIT FOR KEY

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B0D4 48      4940 WAITKEY PHA
B0D5 8A      4950      TXA
B0D6 48      4960      PHA
B0D7 98      4970      TYA
B0D8 48      4980      PHA
B0D9 A919    4990      LDA #25      ; CR
B0DB 20B8BD  5000      JSR PLINE
B0DE A90F    5010      LDA #15
B0E0 20B8BD  5020      JSR PLINE
B0E3 2002BD  5030      JSR GETKEY
B0E6 68      5040      PLA
B0E7 A8      5050      TAY
B0E8 68      5060      PLA
B0E9 AA      5070      TAX
B0EA 68      5080      PLA
B0EB 60      5090      RTS
                    5100 ;
B0EC 48      5110 DERROR PHA
B0ED 8A      5120      TXA
B0EE 48      5130      PHA
B0EF 98      5140      TYA
B0F0 48      5150      PHA
B0F1 A240    5160      LDX ##40
B0F3 A996    5170      LDA # <MERROR ; MESSAGE
B0F5 9D4403  5180      STA ICBAL,X
B0F8 A9B9    5190      LDA # >MERROR
B0FA 9D4503  5200      STA ICBAL,X
B0FD A90B    5210      LDA #$0B      ; PUT CHAR
B0FF 9D4203  5220      STA ICCMD,X
B102 A911    5230      LDA #17
B104 9D4803  5240      STA ICBLL,X
B107 A900    5250      LDA #0
B109 9D4903  5260      STA ICBLL,X
B10C 2056E4  5270      JSR CIOV
B10F 68      5280      PLA
B110 85D4    5290      STA FRO
B112 A900    5300      LDA #0
B114 85D5    5310      STA FRO+1
B116 20AAD9  5320      JSR IFP
B119 20E6D8  5330      JSR FASC      ; ERROR# TO ASCII
B11C 20BCB1  5340      JSR PASC
B11F A240    5350      LDX ##40
B121 A900    5360      LDA #0
B123 9D4803  5370      STA ICBLL,X
B126 A90B    5380      LDA #$0B
B128 9D4203  5390      STA ICCMD,X
B12B A99B    5400      LDA #155
B12D 2056E4  5410      JSR CIOV      ; CR
B130 A900    5420      LDA #0
B132 9D4803  5430      STA ICBLL,X
B135 68      5440      PLA
B136 AA      5450      TAX
B137 68      5460      PLA
B138 60      5470      RTS
                    5480 ;
                    5490 ; PRINT BUFFER SIZE ON SCREEN
                    5500 ;
B139          5510 BUFFSZ

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B139 A580      5520      LDA BUFFER ;BOTTOM OF BUFF
B13B 85D4      5530      STA FRO
B13D A581      5540      LDA BUFFER+1
B13F 85D5      5550      STA FRO+1
B141 20AAD9    5560      JSR IFP ;CHANGE TO FP
B144 20B6DD    5570      JSR FMOVE ;FRO TO FR1
B147 A5CC      5580      LDA BUFPTR
B149 85D4      5590      STA FRO
B14B A5CD      5600      LDA BUFPTR+1
B14D 85D5      5610      STA FRO+1
B14F 20AAD9    5620      JSR IFP
5630 ;SUB AND PRINT
B152 A240      5640      LDX #$40
B154 A90B      5650      LDA #$0B ;PUT CHARS
B156 9D4203    5660      STA ICCMD,X
B159 A900      5670      LDA #0
B15B 9D4903    5680      STA ICBLL,X
B15E 9D4803    5690      STA ICBLL,X
B161 A99B      5700      LDA #155 ;PRINT CR.
B163 2056E4    5710      JSR CIOV
B166 20B0B1    5720      JSR SUBTR ;? USED BYTES
B169 A240      5730      LDX #$40
B16B A97D      5740      LDA # <BMES1
B16D 9D4403    5750      STA ICBAL,X
B170 A9B9      5760      LDA # >BMES1
B172 9D4503    5770      STA ICBAL,X
B175 A90D      5780      LDA #13 ;BMES1 LEN
B177 9D4803    5790      STA ICBLL,X
B17A 2056E4    5800      JSR CIOV
5810 ;PRINT UNUSED MEMOR
B17D A5CC      5820      LDA BUFPTR
B17F 85D4      5830      STA FRO
B181 A5CD      5840      LDA BUFPTR+1
B183 85D5      5850      STA FRO+1
B185 20AAD9    5860      JSR IFP ;CHANGE TO FP
B188 20B6DD    5870      JSR FMOVE ;FRO TO FR1
B18B AD8004    5880      LDA TOPBUF ;TOP OF BUFFER
B18E 85D4      5890      STA FRO
B190 AD8104    5900      LDA TOPBUF+1
B193 85D5      5910      STA FRO+1
B195 20AAD9    5920      JSR IFP
B198 20B0B1    5930      JSR SUBTR ;? IT
B19B A240      5940      LDX #$40
B19D A98A      5950      LDA # <BMES2
B19F 9D4403    5960      STA ICBAL,X
B1A2 A9B9      5970      LDA # >BMES2
B1A4 9D4503    5980      STA ICBAL,X
B1A7 A90C      5990      LDA #12 ;MES2 LENGTH
B1A9 9D4803    6000      STA ICBLL,X
B1AC 2056E4    6010      JSR CIOV
B1AF 60        6020      RTS ;BACK TO MENU
6030 ;
B1B0 2060DA    6040      SUBTR JSR FSUB ;FRO=FRO-FR1
B1B3 20E6D8    6050      JSR FASC ;FP TO ASCII
B1B6 A240      6060      LDX #$40
B1B8 20BCB1    6070      JSR PASC
B1BB 60        6080      RTS
B1BC A240      6090      PASC LDX #$40

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B1BE A0FF      6100      LDY ##FF      ; INDEX
B1C0 C8        6110 FPRINT INY
B1C1 B98005    6120      LDA #0580,Y
B1C4 10FA      6130      BPL FPRINT
B1C6 297F      6140      AND ##7F
B1C8 998005    6150      STA #0580,Y
B1CB C8        6160      INY
B1CC 98        6170      TYA
B1CD 9D4803    6180      STA ICBLL,X
B1D0 A900      6190      LDA #0
B1D2 9D4903    6200      STA ICBLLH,X
B1D5 A980      6210      LDA ##80
B1D7 9D4403    6220      STA ICBAL,X
B1DA A905      6230      LDA ##05
B1DC 9D4503    6240      STA ICBALH,X
B1DF A90B      6250      LDA ##0B      ; PUT CHARS
B1E1 9D4203    6260      STA ICCMD,X
B1E4 2056E4    6270      JSR CIOV      ; PRINT IT!
B1E7 60        6280      RTS
                6290 ;
B1E8 2057AB    6300 DELBF JSR OEDIT
B1EB A904      6310      LDA #4
B1ED 20B8BD    6320      JSR PLINE
B1F0 2032AB    6330      JSR OKEYB
B1F3 A907      6340 GCHCE1 LDA ##07
B1F5 9D4203    6350      STA ICCMD,X
B1F8 2056E4    6360      JSR CIOV
B1FB 30F6      6370      BMI GCHCE1
B1FD C959      6380      CMP #'Y
B1FF F003      6390      BEQ DELYES
B201 4CDFAD    6400      JMP MENU
B204 ADE702    6410 DELYES LDA #02E7 ; MEMLO
B207 85CC      6420      STA BUFPTR
B209 8D8604    6430      STA MAXTOP
B20C 8D8204    6440      STA BOTBUF
B20F 8580      6450      STA BUFFER
B211 8582      6460      STA BUFFER+2
B213 ADE802    6470      LDA #02E8 ; MEMLO+1
B216 85CD      6480      STA BUFPTR+1
B218 8D8704    6490      STA MAXTOP+1
B21B 8D8304    6500      STA BOTBUF+1
B21E 8581      6510      STA BUFFER+1
B220 8583      6520      STA BUFFER+3
B222 A900      6530      LDA #0
B224 8DA504    6540      STA BUFFNUM
B227 8D9404    6550      STA FULLF
B22A 8D8D04    6560      STA SAVMOD
B22D 4CDFAD    6570      JMP MENU
                6580 ;
                6590 ; COPY BUFFER TO DEVICE
B230 A900      6600 COPYBF LDA #0
B232 8D8C04    6610      STA CASFLG
B235 8D8D04    6620      STA SAVMOD
B238 8D8E04    6630      STA SCRFLG
B23B 8D9104    6640      STA PRFLG
B23E A230      6650      LDX ##30
B240 9D4B03    6660      STA ICAX2,X
B243 A240      6670      LDX ##40

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B245	2057AB	6680	JSR OEDIT
B248	A9AB	6690	LDA # <MCOPI
B24A	9D4403	6700	STA ICBAL,X
B24D	A9B9	6710	LDA # >MCOPI
B24F	9D4503	6720	STA ICBAL,X
B252	A9CF	6730	LDA # <[MCOPI1-MCOPI]
B254	9D4803	6740	STA ICBLL,X
B257	A900	6750	LDA # >[MCOPI1-MCOPI]
B259	9D4903	6760	STA ICBLL,X
B25C	A90B	6770	LDA #\$0B ;PUT CHARS
B25E	9D4203	6780	STA ICCMD,X
B261	2056E4	6790	JSR CIOV ;PRINT IT!
B264	A905	6800	LDA #\$05 ;GET REC
B266	9D4203	6810	STA ICCMD,X
B269	A913	6820	LDA #19
B26B	9D4803	6830	STA ICBLL,X
B26E	A900	6840	LDA #0
B270	9D4903	6850	STA ICBLL,X
B273	A996	6860	LDA # <BUFF ;STORE
B275	9D4403	6870	STA ICBAL,X ;FILENAME AT
B278	A900	6880	LDA # >BUFF ;BUFF
B27A	9D4503	6890	STA ICBAL,X
B27D	2056E4	6900	JSR CIOV ;GET RECORD
B280	3026	6910	BMI NOFN
B282	A596	6920	LDA BUFF ;1ST CHAR
B284	C943	6930	CMP #'C
B286	F023	6940	BEG CPYCAS
B288	C944	6950	CMP #'D
B28A	F031	6960	BEG CPYOP1
B28C	C950	6970	CMP #'F
B28E	F02D	6980	BEG CPYOP1
B290	C953	6990	CMP #'S
B292	D00D	7000	BNE OPARND
B294	AD8F04	7010	LDA COLFLG
B297	C980	7020	CMP #\$80 ;OPEN EDITOR IF
B299	D022	7030	BNE CPYOP1 ;IN 80 COL
B29B	A945	7040	LDA #'E ;INSTEAD OF
B29D	8596	7050	STA BUFF ;SCREEN
B29F	D01C	7060	BNE CPYOP1
B2A1	C94D	7070	OPARND CMP #'M
B2A3	D003	7080	BNE NOFN
B2A5	4C74B3	7090	JMP CPYMOD
B2A8	4CDFAD	7100	NOFN JMP MENU
B2AB	A901	7110	CPYCAS LDA #1
B2AD	8D8C04	7120	STA CASFLG
B2B0	A598	7130	LDA BUFF+2
B2B2	C953	7140	CMP #'S ;SHORT IRG
B2B4	D007	7150	BNE CPYOP1
B2B6	A980	7160	LDA #\$80
B2B8	A230	7170	LDX #\$30
B2BA	9D4B03	7180	STA ICAX2,X
B2BD	2031B5	7190	CPYOP1 JSR BUFF?
B2C0	20E7AB	7200	JSR BINDE
B2C3	2091A0	7210	JSR CLOSE
B2C6	2096B3	7220	JSR CPYOPN
B2C9	A230	7230	LDX #\$30
B2CB	A908	7240	LDA #8 ;WRITE
B2CD	9D4A03	7250	STA ICAX1,X



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B2D0 2056E4      7260      JSR CIOV      ; OPEN IT
B2D3 1014        7270      BFL CPYOK1
B2D5 98          7280      TYA
B2D6 48          7290      PHA
B2D7 2029AB      7300      JSR CIOCB
B2DA 208EA0      7310      JSR OPEN
B2DD A240        7320      LDX ##40
B2DF 68          7330      PLA
B2E0 20ECB0      7340      JSR DERROR ; OPEN ERROR
B2E3 20D4B0      7350      JSR WAITKEY
B2E6 4C30B2      7360      JMP COPYBF
B2E9 A900        7370      CPYOK1 LDA #0
B2EB 8DC602      7380      STA $02C6
B2EE 8DC802      7390      STA $02C8
B2F1 A908        7400      LDA #8
B2F3 8DC502      7410      STA $02C5 ; CHANGE COLORS
B2F6 AD8204      7420      LDA BOTBUF
B2F9 85CE        7430      STA PTR
B2FB AD8304      7440      LDA BOTBUF+1
B2FE 85CF        7450      STA PTR+1
B300 A901        7460      LDA #1
B302 8DFE02      7470      STA $02FE
                7480      ;
B305 A000        7490      CPYLOOP LDY #0
B307 B1CE        7500      LDA (PTR),Y
B309 48          7510      PHA
B30A A5CF        7520      LDA PTR+1
B30C C5CD        7530      CMP BUFPTR+1
B30E D009        7540      BNE PTRINC
B310 A5CE        7550      LDA PTR
B312 C5CC        7560      CMP BUFPTR
B314 D003        7570      BNE PTRINC
B316 4C42B3      7580      JMP CPYDONE
B319 E6CE        7590      PTRINC INC PTR
B31B D002        7600      BNE PTROK
B31D E6CF        7610      INC PTR+1
B31F A230        7620      PTROK LDX ##30 ; DEVICE
B321 A900        7630      LDA #0
B323 9D4803      7640      STA ICBLL,X
B326 9D4903      7650      STA ICBLL,X
B329 A90B        7660      LDA ##0B ; PUT CHAR
B32B 9D4203      7670      STA ICCMD,X
B32E 68          7680      PLA
B32F 2056E4      7690      JSR CIOV
B332 10D1        7700      BPL CPYLOOP
B334 A900        7710      LDA #0
B336 8DFE02      7720      STA $02FE
B339 2057AB      7730      JSR DEDIT
B33C 20ECB0      7740      JSR DERROR
B33F 4C43B3      7750      JMP CPYDN1
B342 68          7760      CPYDONE PLA
B343 A900        7770      CPYDN1 LDA #0
B345 8DFE02      7780      STA $02FE
B348 A230        7790      LDX ##30
B34A A000        7800      LDY #0
B34C B99600      7810      LDA BUFP,Y
B34F C950        7820      CMP #'P
B351 D00D        7830      BNE NOCR1

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→ leave border



B353	A900	7840	LDA #0
B355	9D4803	7850	STA ICBLL,X
B358	9D4903	7860	STA ICBLLH,X
B35B	A99B	7870	LDA #155
B35D	2056E4	7880	JSR CIOV
B360	A230	7890	NOCR1 LDX ##30
B362	2029AB	7900	JSR CIOCB ;CLOSE DEVICE
B365	2091A0	7910	JSR CLOSE
B368	208EA0	7920	JSR OPEN
B36B	20D4B0	7930	JSR WAITKEY
B36E	2057AB	7940	JSR QEDIT
B371	4CDFAD	7950	JMP MENU
B374	2057AB	7960	CPYMOD JSR QEDIT
B377	A910	7970	LDA #16
B379	20B8BD	7980	JSR PLINE
B37C	A911	7990	LDA #17
B37E	20B8BD	8000	JSR PLINE
B381	2031B5	8010	MDMOK JSR BUFF?
B384	AD8204	8020	LDA BOTBUF
B387	85D2	8030	STA SENPTR
B389	AD8304	8040	LDA BOTBUF+1
B38C	85D3	8050	STA SENPTR+1
B38E	A901	8060	LDA #1
B390	8D8D04	8070	STA SAVMOD
B393	4C18B5	8080	JMP TERM3
		8090	;
B396	A230	8100	CPYOPN LDX ##30
B398	2029AB	8110	JSR CIOCB ;CLOSE IT
B39B	A903	8120	LDA ##03 ;OPEN
B39D	9D4203	8130	STA ICCMD,X
B3A0	A996	8140	LDA # <BUFF
B3A2	9D4403	8150	STA ICBAL,X
B3A5	A900	8160	LDA # >BUFF
B3A7	9D4503	8170	STA ICBAH,X
B3AA	60	8180	RTS
		8190	;
B3AB	A900	8200	LOADBF LDA #0
B3AD	8D8C04	8210	STA CASFLG
B3B0	A230	8220	LDX ##30
B3B2	9D4B03	8230	STA ICAX2,X
B3B5	2057AB	8240	JSR QEDIT
B3B8	A912	8250	LDA #18
B3BA	20B8BD	8260	JSR PLINE
B3BD	A913	8270	LDA #19
B3BF	20B8BD	8280	JSR PLINE
B3C2	A9E8	8290	LDA # <MLOAD
B3C4	9D4403	8300	STA ICBAL,X
B3C7	A9B9	8310	LDA # >MLOAD
B3C9	9D4503	8320	STA ICBAH,X
B3CC	A93E	8330	LDA # <[MLOAD1-MLOAD]
B3CE	9D4803	8340	STA ICBLL,X
B3D1	A90B	8350	LDA #CPUTC
B3D3	9D4203	8360	STA ICCMD,X
B3D6	2056E4	8370	JSR CIOV
B3D9	A916	8380	LDA #22
B3DB	20B8BD	8390	JSR PLINE
B3DE	A965	8400	LDA # <MLOAD4
B3E0	9D4403	8410	STA ICBAL,X

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B3E3 A9BA      8420      LDA # >MLOAD4
B3E5 9D4503    8430      STA ICB AH,X
B3E8 A912      8440      LDA #[MCOPY1-MLOAD4]
B3EA 9D4803    8450      STA ICBLL,X
B3ED A90B      8460      LDA #CPUTC
B3EF 9D4203    8470      STA ICCMD,X
B3F2 2056E4    8480      JSR CIOV      ;MESSAGES
                8490 ;GET FILENAME
B3F5 A905      8500      LDA ##05
B3F7 9D4203    8510      STA ICCMD,X
B3FA A912      8520      LDA #18
B3FC 9D4803    8530      STA ICBLL,X
B3FF A996      8540      LDA # <BUFF
B401 9D4403    8550      STA ICBAL,X
B404 A900      8560      LDA # >BUFF
B406 9D4503    8570      STA ICB AH,X
B409 2056E4    8580      JSR CIOV      ;GET FN
B40C 3011      8590      BMI CMPC
B40E A596      8600      LDA BUFF
B410 C943      8610      CMP #'C
B412 F00E      8620      BEQ LDCAS
B414 C944      8630      CMP #'D
B416 F01C      8640      BEQ LDOPN
B418 C945      8650      CMP #'E
B41A D003      8660      BNE CMPC
B41C 4C0EAC    8670      JMP EDITOR
B41F 4CDFAD    8680      CMPC JMP MENU
B422 A901      8690      LDCAS LDA #1
B424 8D8C04    8700      STA CASFLG
B427 A598      8710      LDA BUFF+2
B429 C953      8720      CMP #'S
B42B D007      8730      BNE LDOPN
B42D A980      8740      LDA ##80
B42F A230      8750      LDX ##30
B431 9D4B03    8760      STA ICAX2,X
B434 2091A0    8770      LDOPN JSR CLOSE
B437 2096B3    8780      JSR CPYOPN
B43A A904      8790      LDA #4      ;INPUT
B43C 9D4A03    8800      STA ICAX1,X
B43F 2056E4    8810      JSR CIOV      ;OPEN IT
B442 1009      8820      BPL LDLOOP
B444 20ECB0    8830      JSR DERROR
B447 20D4B0    8840      JSR WAITKEY
B44A 4CABB3    8850      JMP LOADBF      ;OPEN ERROR
B44D A900      8860      LDLOOP LDA #0
B44F A230      8870      LDX ##30
B451 9D4803    8880      STA ICBLL,X
B454 9D4903    8890      STA ICBLH,X
B457 AD9404    8900      LDA FULLF
B45A D065      8910      BNE BFULL
B45C AD8F04    8920      LDA COLFLG      ;IT WORKS...
B45F 300A      8930      BMI LD1
B461 AD1FD0    8940      LDA CONSOL
B464 C907      8950      CMP #7
B466 F003      8960      BEQ LD1
B468 4CDBB4    8970      JMP LDONE
B46B AD8104    8980      LD1 LDA TOPBUF+1
B46E CD8704    8990      CMP MAXTOP+1

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B471 900C      9000      BCC JLD1
B473 D00D      9010      BNE BOK
B475 AD8004    9020      LDA TOPBUF
B478 CD8604    9030      CMP MAXTOP
B47B 9002      9040      BCC JLD1
B47D D003      9050      BNE BOK
B47F 4CC1B4    9060      JLD1 JMP BFULL
                9070      ;
B482 AD8004    9080      BOK LDA TOPBUF
B485 38         9090      SEC
B486 ED8604    9100      SBC MAXTOP
B489 9D4803    9110      STA ICBLL, X
B48C AD8104    9120      LDA TOPBUF+1
B48F ED8704    9130      SBC MAXTOP+1
B492 9D4903    9140      STA ICBLL, X
                9150      ;
B495 AD8604    9160      LDA MAXTOP
B498 9D4403    9170      STA ICBAL, X
B49B AD8704    9180      LDA MAXTOP+1
B49E 9D4503    9190      STA ICBAL, X
B4A1 A907      9200      LDA ##07      ; GET CHARS
B4A3 9D4203    9210      STA ICCMD, X
B4A6 2056E4    9220      JSR CIOV
B4A9 3025      9230      BMI LDERR
B4AB BD4803    9240      ERROK LDA ICBLL, X
B4AE 18        9250      CLC
B4AF 6D8604    9260      ADC MAXTOP
B4B2 8D8604    9270      STA MAXTOP
B4B5 BD4903    9280      LDA ICBLL, X
B4B8 6D8704    9290      ADC MAXTOP+1
B4BB 8D8704    9300      STA MAXTOP+1
B4BE 4C4DB4    9310      NCARRY JMP LDLOOP
B4C1 A240      9320      BFULL LDX ##40
B4C3 A901      9330      LDA #1
B4C5 8D9404    9340      STA FULLF
B4C8 A914      9350      LDA #20
B4CA 20B8BD    9360      JSR PLINE
B4CD 4CDBB4    9370      JMP LDONE
B4D0 C088      9380      LDERR CPY ##88      ; EOF ERROR
B4D2 F007      9390      BEQ LDONE
B4D4 C003      9400      CPY ##03
B4D6 F0D3      9410      BEQ ERROK
B4D8 20ECB0    9420      JSR DERROR
B4DB A230      9430      LDONE LDX ##30
B4DD BD4803    9440      LDA ICBLL, X
B4E0 18        9450      CLC
B4E1 6D8604    9460      ADC MAXTOP
B4E4 8D8604    9470      STA MAXTOP
B4E7 85CC      9480      STA BUFPTR
B4E9 BD4903    9490      LDA ICBLL, X
B4EC 6D8704    9500      ADC MAXTOP+1
B4EF 8D8704    9510      STA MAXTOP+1
B4F2 85CD      9520      STA BUFPTR+1
B4F4 A230      9530      LDX ##30      ; DONE
B4F6 2029AB    9540      JSR CIOCB
B4F9 20BEA0    9550      JSR OPEN
B4FC 20D4B0    9560      JSR WAITKEY
B4FF 4CDFAD    9570      JMP MENU

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B502 ADA504      9580 TERM2 LDA BUFFNUM
B505 20E7AB      9590      JSR BINDEX
B508 B98000      9600      LDA BUFFER,Y
B50B 85D2        9610      STA SENPTR
B50D 8D8204      9620      STA BOTBUF
B510 B98100      9630      LDA BUFFER+1,Y
B513 85D3        9640      STA SENPTR+1
B515 8D8304      9650      STA BOTBUF+1
B518 A901        9660 TERM3 LDA #1
B51A 8D6005      9670      STA ERFL
B51D A240        9680      LDX ##40
B51F A90B        9690      LDA ##0B
B521 9D4203      9700      STA ICCMD,X
B524 A915        9710      LDA #21
B526 20B8BD      9720      JSR PLINE
B529 A900        9730      LDA #0
B52B 8DA604      9740      STA DIALF
B52E 4C7EA2      9750      JMP TERM
                  9760 ;
B531 ADA504      9770 BUFF? LDA BUFFNUM
B534 D005        9780      BNE BDEFLT
B536 A900        9790      LDA #0
B538 4B          9800      PHA
B539 F036        9810      BEQ DEYDN
B53B A240        9820 BDEFLT LDX ##40
B53D A90B        9830      LDA ##0B
B53F 9D4203      9840      STA ICCMD,X
B542 A907        9850      LDA #7
B544 20B8BD      9860      JSR PLINE
B547 2002BD      9870 GKEY JSR GETKEY
B54A 1005        9880      BPL KEYOK
B54C 6B          9890      PLA          ;PULL RTS
B54D 6B          9900      PLA          ;FROM STACK
B54E 4CDFAD      9910      JMP MENU      ;BREAKEY ABORT
B551 C931        9920 KEYOK CMP ##31    ;'1'
B553 30F2        9930      BMI GKEY
B555 C939        9940      CMP ##39     ;'9'
B557 F002        9950      BEQ KEYRND
B559 10EC        9960      BPL GKEY
B55B 3B          9970 KEYRND SEC
B55C E931        9980      SBC ##31      ;A=BUFFER #
B55E CDA504      9990      CMP BUFFNUM
B561 F002        010000 BEQ NOTBAD
B563 103B        010010 BPL BADBUF
B565 4B          010020 NOTBAD PHA
B566 AB          010030 TAY
B567 A900        010040 LDA #0
B569 8B          010050 DEYLP DEY
B56A 3005        010060 BMI DEYDN
B56C 1B          010070 CLC
B56D 6902        010080 ADC #2
B56F D0F8        010090 BNE DEYLP
B571 AB          010100 DEYDN TAY      ;Y= INDEX
B572 B98000      010110 LDA BUFFER,Y
B575 8D8204      010120 STA BOTBUF
B578 CB          010130 INY
B579 B98000      010140 LDA BUFFER,Y
B57C 8D8304      010150 STA BOTBUF+1

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B57F 68      010160  PLA
B580 CDA504  010170  CMF  BUFFNUM
B583 F00D    010180  BEQ  LASTONE
B585 C8      010190  INY
B586 B98000  010200  LDA  BUFFER,Y
B589 B5CC    010210  STA  BUFPTR
B58B C8      010220  INY
B58C B98000  010230  LDA  BUFFER,Y
B58F B5CD    010240  STA  BUFPTR+1
B591 60      010250  RTS
B592 AD8604  010260  LASTONE LDA  MAXTOP
B595 B5CC    010270  STA  BUFPTR
B597 AD8704  010280  LDA  MAXTOP+1
B59A B5CD    010290  STA  BUFPTR+1
B59C 60      010300  RTS
B59D A240    010310  BADBUF LDX  #$40
B59F A90B    010320  LDA  #$0B
B5A1 9D4203  010330  STA  ICCMD,X
B5A4 A906    010340  LDA  #6
B5A6 20B8BD  010350  JSR  PLINE
B5A9 20D4B0  010360  JSR  WAITKEY
B5AC 68      010370  PLA          ; GET RTS
B5AD 68      010380  PLA          ; OFF STACK
B5AE 4CDFAD  010390  JMP  MENU
B5B1 A240    010400  BUFUSED LDX  #$40
B5B3 A90B    010410  LDA  #$0B
B5B5 9D4203  010420  STA  ICCMD,X
B5B8 A900    010430  LDA  #0
B5BA 9D4803  010440  STA  ICBLL,X
B5BD 9D4903  010450  STA  ICBLL,X
B5C0 A99B    010460  LDA  #155
B5C2 2056E4  010470  JSR  CIOV
B5C5 A900    010480  LDA  #0
B5C7 9D4803  010490  STA  ICBLL,X
B5CA ADA504  010500  LDA  BUFFNUM
B5CD 18      010510  CLC
B5CE 6931    010520  ADC  #$31      ; MAKE ASCII
B5D0 2056E4  010530  JSR  CIOV      ; PRINT NUMBER
B5D3 A905    010540  LDA  #5
B5D5 20B8BD  010550  JSR  PLINE
B5D8 60      010560  RTS
B5D9 2057AB  010570  DIRDISK JSR  OEDIT
B5DC A90B    010580  LDA  #$0B
B5DE 9D4203  010590  STA  ICCMD,X
B5E1 A9AC    010600  LDA  # <MDIRD
B5E3 9D4403  010610  STA  ICBAL,X
B5E6 A9B6    010620  LDA  # >MDIRD
B5E8 9D4503  010630  STA  ICBAL,X
B5EB A98F    010640  LDA  #[MDIRD1-MDIRD]
B5ED 9D4803  010650  STA  ICBLL,X
B5F0 2056E4  010660  JSR  CIOV
B5F3 1003    010670  BPL  DRPROK
B5F5 4CDFAD  010680  JMP  MENU
B5F8 2002BD  010690  DRPROK JSR  GETKEY
B5FB C931    010700  CMF  #$31
B5FD F007    010710  BEQ  MODISK
B5FF C932    010720  CMF  #$32
B601 F013    010730  BEQ  DISKMOD

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B603	4CDFAD	010740	JMP MENU	
B606	A900	010750	MODISK LDA #0	
B608	8D8D04	010760	STA SAVMOD	
B60B	A901	010770	LDA #1	
B60D	8D9004	010780	STA DISKF	
B610	2024B6	010790	JSR GFILEN	
B613	4C02B5	010800	JMP TERM2	
B616	A901	010810	DISKMOD LDA #1	
B618	8D8D04	010820	STA SAVMOD	
B61B	8D9004	010830	STA DISKF	
B61E	2024B6	010840	JSR GFILEN	
B621	4C02B5	010850	JMP TERM2	
B624	A240	010860	GFILEN LDX ##40	
B626	A90B	010870	LDA #\$0B	
B628	9D4203	010880	STA ICCMD,X	
B62B	A9A0	010890	LDA # <MFILEN	
B62D	9D4403	010900	STA ICBAL,X	
B630	A9B6	010910	LDA # >MFILEN	
B632	9D4503	010920	STA ICBAL,X	
B635	A90B	010930	LDA #11	
B637	9D4803	010940	STA ICBLL,X	
B63A	2056E4	010950	JSR CIOV	
B63D	A905	010960	LDA #5	
B63F	9D4203	010970	STA ICCMD,X	
B642	A910	010980	LDA #16	
B644	9D4803	010990	STA ICBLL,X	
B647	A996	011000	LDA # <BUFF	
B649	9D4403	011010	STA ICBAL,X	
B64C	A900	011020	LDA # >BUFF	
B64E	9D4503	011030	STA ICBAL,X	
B651	2056E4	011040	JSR CIOV	
B654	1005	011050	BPL CKDOPN	
B656	68	011060	DIRBCK PLA	; GET RTS
B657	68	011070	PLA	; OFF STACK
B658	4CDFAD	011080	JMP MENU	
B65B	A596	011090	CKDOPN LDA BUFF	
B65D	C944	011100	CMF #'D	
B65F	D0F5	011110	BNE DIRBCK	
B661	A230	011120	LDX ##30	
B663	2029AB	011130	JSR CIOCB	
B666	AD8D04	011140	LDA SAVMOD	
B669	D008	011150	BNE DOUTPUT	
B66B	A908	011160	LDA #8	
B66D	9D4A03	011170	STA ICAX1,X	
B670	4C78B6	011180	JMP DINPUT	
B673	A904	011190	DOUTPUT LDA #4	
B675	9D4A03	011200	STA ICAX1,X	
B678	A900	011210	DINPUT LDA #0	
B67A	9D4B03	011220	STA ICAX2,X	
B67D	A903	011230	LDA #3	; OPEN
B67F	9D4203	011240	STA ICCMD,X	
B682	A996	011250	LDA # <BUFF	
B684	9D4403	011260	STA ICBAL,X	
B687	A900	011270	LDA # >BUFF	
B689	9D4503	011280	STA ICBAL,X	
B68C	A90F	011290	LDA #15	
B68E	9D4803	011300	STA ICBLL,X	
B691	2056E4	011310	JSR CIOV	; OPEN IT



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B694 1009      011320    BPL DOPNOK
B696 20ECB0     011330    JSR DERROR
B699 20D4B0     011340    JSR WAITKEY
B69C 4C56B6     011350    JMP DIRBCK
B69F 60         011360    DOPNOK RTS
                011370    ;
                011380    MFILEN .BYTE 155,"FILENAME ? "

B6A0 9B46494C
B6A4 454E414D
B6A8 45203F20
B6AC 9B544849   011390    MDIRD .BYTE 155,"THIS ALLOWS YOU TO COPY TO"
B6B0 5320414C
B6B4 4C4F5753
B6B8 20594F55
B6BC 20544F20
B6C0 434F5059
B6C4 20544F
B6C7 9B414E44   011400    .BYTE 155,"AND FROM THE DISK DIRECTLY"
B6CB 2046524F
B6CF 4D205448
B6D3 45204449
B6D7 534B2044
B6DB 49524543
B6DF 544C59
B6E2 9B574954   011410    .BYTE 155,"WITHOUT BUFFERING THE DATA",155
B6E6 484F5554
B6EA 20425546
B6EE 46455249
B6F2 4E472054
B6F6 48452044
B6FA 4154419B
B6FE 9B7F3129   011420    .BYTE 155,$7F,"1) MODEM -> DISK DIRECT",155
B702 204D4F44
B706 454D202D
B70A 3E204449
B70E 534B2044
B712 49524543
B716 549B
B718 7F322920   011430    .BYTE $7F,"2) DISK -> MODEM DIRECT",155
B71C 4449534B
B720 202D3E20
B724 4D4F4445
B728 4D204449
B72C 52454354
B730 9B
B731 9B43484F   011440    .BYTE 155,"CHOICE ? "
B735 49434520
B739 3F20
B73B 20         011450    MDIRD1 .BYTE " "
                011460    ;
                011470    ;DIRECT PRINTER
                011480    DIRPR JSR OEDIT
B73C 2057AB     011490    LDA #8
B73F A90B       011500    JSR PLINE
B741 20B8BD     011510    JSR CPYOPN
B744 2096B3     011520    LDA #'P
B747 A950       011530    STA BUFF
B749 8596       011540    LDA #8
B74B A90B       011550    STA ICAX1,X
B74D 9D4A03
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B750 2056E4      011560      JSR CIOV
B753 1009        011570      BPL NPROPN
B755 20ECB0      011580      JSR DERROR
B758 20D4B0      011590      JSR WAITKEY
B75B 4CDFAD      011600      JMP MENU
B75E A901        011610      NPROPN LDA #1
B760 8D9504      011620      STA DPRFLG
B763 4C02B5      011630      JMP TERM2
                  011640      ;
B766 2057AB      011650      VBAUD JSR OEDIT
B769 A90B        011660      LDA ##0B
B76B 9D4203      011670      STA ICCMD,X
B76E A916        011680      LDA #22
B770 9D4803      011690      STA ICBLL,X
B773 A925        011700      LDA # <MBAUD
B775 9D4403      011710      STA ICBAL,X
B778 A9B8        011720      LDA # >MBAUD
B77A 9D4503      011730      STA ICBAL,X
B77D 2056E4      011740      JSR CIOV
B780 A904        011750      LDA #4
B782 9D4803      011760      STA ICBLL,X
B785 A9D3        011770      LDA # <CBAUD
B787 9D4403      011780      STA ICBAL,X
B78A A904        011790      LDA # >CBAUD
B78C 9D4503      011800      STA ICBAL,X
B78F 2056E4      011810      JSR CIOV
B792 A90B        011820      BADBD LDA ##0B
B794 9D4203      011830      STA ICCMD,X
B797 A93B        011840      LDA # <MBAUD1
B799 9D4403      011850      STA ICBAL,X
B79C A9B8        011860      LDA # >MBAUD1
B79E 9D4503      011870      STA ICBAL,X
B7A1 A914        011880      LDA #20
B7A3 9D4803      011890      STA ICBLL,X
B7A6 2056E4      011900      JSR CIOV
B7A9 A905        011910      LDA #5
B7AB 9D4203      011920      STA ICCMD,X ; GET RECORD
B7AE 9D4803      011930      STA ICBLL,X
B7B1 A900        011940      LDA #0
B7B3 9D4903      011950      STA ICBLL,X
B7B6 A9D3        011960      LDA # <CBAUD
B7B8 9D4403      011970      STA ICBAL,X
B7BB 85F3        011980      STA $F3 ; INBUFF
B7BD A904        011990      LDA # >CBAUD
B7BF 9D4503      012000      STA ICBAL,X
B7C2 85F4        012010      STA $F4 ; INBUFF+1
B7C4 2056E4      012020      JSR CIOV ; GET NEW
B7C7 1003        012030      BPL CBOK ; BAUD RATE
B7C9 4C92B7      012040      JMP BADBD
B7CC A900        012050      CBOK LDA #0
B7CE 85F2        012060      STA $F2 ; CIX
B7D0 2000DB      012070      JSR AFP ; FP IN FRO
B7D3 B0BD        012080      BCS BADBD ; INVALID NUMBER
B7D5 A5F2        012090      LDA $F2
B7D7 C903        012100      CMP #3
B7D9 30B7        012110      BMI BADBD
B7DB C905        012120      CMP #5
B7DD 10B3        012130      BPL BADBD

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B7DF ADD604      012140      LDA CBAUD+3
B7E2 C99B        012150      CMP #155
B7E4 F008        012160      BEQ GDBAUD
B7E6 C930        012170      CMP ##30      ;'0'
B7E8 30A8        012180      BMI BADBD
B7EA C93A        012190      CMP ##3A      ;': '
B7EC 10A4        012200      BPL BADBD
B7EE 20B6DD      012210      GDBAUD JSR FMOVE ;FROFR1
B7F1 A953        012220      LDA #83
B7F3 85D5        012230      STA FRO+1
B7F5 A93B        012240      LDA #59      ;21307
B7F7 85D4        012250      STA FRO
B7F9 20AAD9      012260      JSR IFP
B7FC 2028DB      012270      JSR FDIV      ;FRO=FR1/FRO
B7FF B091        012280      BCS BADBD
B801 20D2D9      012290      JSR FPI      ;FPINT
B804 B08C        012300      BCS BADBD
B806 A5D5        012310      LDA FRO+1      ;GET HIGH BYTE
B808 F00D        012320      BEQ INTOK
B80A A5D4        012330      LDA FRO
B80C C90A        012340      CMP #10
B80E 3004        012350      BMI BDBD
B810 C9D5        012360      CMP #213
B812 3003        012370      BMI INTOK
B814 4C92B7      012380      BDBD JMP BADBD
B817 A5D4        012390      INTOK LDA FRO
B819 38          012400      SEC
B81A E901        012410      SBC #1
B81C 8D6805      012420      STA BAUD      ;IN OPEN ROUTINE
B81F 8D00D2      012430      STA AUDF1      ;TIMER
B822 4CDFAD      012440      JMP MENU      ;DONE
B825 7D435552    012450      MBAUD .BYTE #7D,"CURRENT BAUD RATE IS "
B829 52454E54
B82D 20424155
B831 44205241
B835 54452049
B839 5320
B83B 9B444553    012460      MBAUD1 .BYTE 155,"DESIRED BAUD RATE? "
B83F 49524544
B843 20424155
B847 44205241
B84B 54453F20
B84F 20
B850 7D4D4943    012470      MES .BYTE #7D,"MICROBITS PERIPHERAL PRODUCTS, INC.",155
B854 524F4249
B858 54532050
B85C 45524950
B860 48455241
B864 4C205052
B868 4F445543
B86C 54532C20
B870 494E432E
B874 9B
B875 534D4152    012480      .BYTE "SMART TERMINAL REV 5.0      (c) 1983",155,155
B879 54205445
B87D 524D494E
B881 414C2052
B885 45562035

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B889 2E302020
B88D 20202863
B891 29203139
B895 38339B9B
B899 7F412920      012490      .BYTE $7F,"A) DISK DIRECTORY",155
B89D 4449534B
B8A1 20444952
B8A5 4543544F
B8A9 52599B
B8AC 7F422920      012500      .BYTE $7F,"B) MODEM <-> DISK DIRECT",155
B8B0 4D4F4445
B8B4 4D203C2D
B8B8 3E204449
B8BC 534B2044
B8C0 49524543
B8C4 549B
B8C6 7F432920      012510      .BYTE $7F,"C) COPY BUFFER TO DEVICE",155
B8CA 434F5059
B8CE 20425546
B8D2 46455220
B8D6 544F2044
B8DA 45564943
B8DE 459B
B8E0 7F442920      012520      .BYTE $7F,"D) DELETE ALL BUFFERS",155
B8E4 44454C45
B8E8 54452041
B8EC 4C4C2042
B8F0 55464645
B8F4 52539B
B8F7 7F452920      012530      .BYTE $7F,"E) CREATE NEW BUFFER",155
B8FB 43524541
B8FF 5445204E
B903 45572042
B907 55464645
B90B 529B
B90D 7F462920      012540 MESF .BYTE $7F,"F) FULL/HALF DUPLEX",155
B911 46554C4C
B915 2F48414C
B919 46204455
B91D 504C4558
B921 9B
B922 7F482920      012550 MESH .BYTE $7F,"H) ASCII/ATASCII",155
B926 41534349
B92A 492F4154
B92E 41534349
B932 499B
B934 7F492920      012560 MESI .BYTE $7F,"I) NO/X-MODEM PROTOCOL",155
B938 4E4F2F58
B93C 2D4D4F44
B940 454D2050
B944 524F544F
B948 434F4C9B
B94C 7F4A2920      012570 MESJ .BYTE $7F,"J) 38/40/EXTENDED COLUMN",155
B950 33382F34
B954 302F4558
B958 54454E44
B95C 45442043
B960 4F4C554D
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B964 4E9B
B966 7F502920      012580 MESP .BYTE $7F,"P) NO/ODD/EVEN PARITY",155
B96A 4E4F2F4F
B96E 44442F45
B972 56454E20
B976 50415249
B97A 54599B
B97D 20425954      012590 BMES1 .BYTE " BYTES USED  "
B981 45532055
B985 53454420
B989 20
B98A 20425954      012600 BMES2 .BYTE " BYTES LEFT  "
B98E 4553204C
B992 45465420
B996 FDFD9BAA      012610 MERR0R .BYTE $FD,$FD,155,$AA,$AA,$AA,$AO,$AO,$C5,$D2,$D2
                        , $CF,$D2,$AO,$A3,$20,$20,$20 ; 'ERROR #'

B99A AAAAA0A0
B99E C5D2D2CF
B9A2 D2A0A320
B9A6 2020
B9AB 7D544849      012620 MCOFY .BYTE $7D,"THIS OPTION COPIES THE BUFFER
                        TO",155,"A DEVICE. LEGAL DEVICES ARE:",155,
155
B9AC 53204F50
B9B0 54494F4E
B9B4 20434F50
B9B8 49455320
B9BC 54484520
B9C0 42554646
B9C4 45522054
B9C8 4F9B4120
B9CC 44455649
B9D0 43452E20
B9D4 4C454741
B9D8 4C204445
B9DC 56494345
B9E0 53204152
B9E4 453A9B9B
B9E8 7F46494C      012630 MLOAD .BYTE $7F,"FILENAME  DEVICE",155,155
B9EC 454E414D
B9F0 45202020
B9F4 44455649
B9F8 43459B9B
B9FC 7F433A28      012640      .BYTE $7F,"C: (SHORT)  - CASSETTE",155
BA00 53484F52
BA04 54292020
BA08 2D204341
BA0C 53534554
BA10 54459B
BA13 7F443A66      012650      .BYTE $7F,"D:filename - DISK",155
BA17 696C656E
BA1B 616D6520
BA1F 2D204449
BA23 534B9B
BA26 7F4D3A20      012660 MLOAD1 .BYTE $7F,"M:          - MODEM",155
BA2A 20202020
BA2E 20202020
BA32 2D204D4F
BA36 44454D9B

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BA3A 7F533A20      012670      .BYTE $7F,"S:           - SCREEN",155
BA3E 20202020
BA42 20202020
BA46 2D205343
BA4A 5245454E
BA4E 9B
BA4F 7F503A20      012680      .BYTE $7F,"P:           - PRINTER",155
BA53 20202020
BA57 20202020
BA5B 2D205052
BA5F 494E5445
BA63 529B
BA65 9B454E54      012690      MLOAD4 .BYTE 155,"ENTER FILENAME ? "
BA69 45522046
BA6D 494C454E
BA71 414D4520
BA75 3F20
BA77 20
BA78 443A2A2E      012700      MCOPY1 .BYTE " "
BA7C 2A9B           012710      DISKM .BYTE "D:*.\"",155

                                012720      ;
                                012730      ;AUTODIAL SECTION
BA7E 2057AB         012740      DIAL JSR OEDIT
BA81 ADA304         012750      LDA DIALADD
BA84 85C8           012760      STA DIALBF
BA86 ADA404         012770      LDA DIALADD+1
BA89 85C9           012780      STA DIALBF+1
BA8B A900           012790      LDA #0
BA8D 8DA204         012800      STA FLCNT
BA90 8DA604         012810      STA DIALF
BA93 A900           012820      PLOOP LDA #0
BA95 9D4803         012830      STA ICBLL,X
BA98 9D4903         012840      STA ICBLLH,X
BA9B A90B           012850      LDA #CPUTC
BA9D 9D4203         012860      STA ICCMD,X
BAA0 ADA204         012870      LDA FLCNT
BAA3 18             012880      CLC
BAA4 6930           012890      ADC #$30      ;MAKE DECIMAL
BAA6 2056E4         012900      JSR CIOV      ;PRINT IT
BAA9 A929           012910      LDA #")
BAAB 2056E4         012920      JSR CIOV
BAAE A920           012930      LDA #$20      ;I THINK SPACE
BAB0 2056E4         012940      JSR CIOV
BAB3 A5C8           012950      LDA DIALBF
BAB5 9D4403         012960      STA ICBAL,X
BAB8 A5C9           012970      LDA DIALBF+1
BABA 9D4503         012980      STA ICBALH,X
BABD A909           012990      LDA #CPUTR
BABF 9D4203         013000      STA ICCMD,X
BAC2 A918           013010      LDA #24
BAC4 9D4803         013020      STA ICBLL,X
BAC7 2056E4         013030      JSR CIOV
BACA A5C8           013040      LDA DIALBF
BACC 18             013050      CLC
BACD 6919           013060      ADC #25
BACF 85C8           013070      STA DIALBF
BAD1 9002           013080      BCC NOCARY
BAD3 E6C9           013090      INC DIALBF+1

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BAD5 EEA204      013100 NOCARY INC PLCNT
BAD8 ADA204      013110   LDA PLCNT
BADB C90A        013120   CMP #10
BADD D0B4        013130   BNE FLOOP
                013140 ;DONE PRINTING PHONE #'S
BADF A90B        013150   LDA #CFUTC
BAE1 9D4203      013160   STA ICCMD,X
BAE4 A91D        013170   LDA # <MDIAL1
BAE6 9D4403      013180   STA ICBAL,X
BAE9 A9BD        013190   LDA # >MDIAL1
BAEB 9D4503      013200   STA ICBAL,X
BAEE A910        013210   LDA # <[MDIAL2-MDIAL1]
BAFO 9D4803      013220   STA ICBLL,X
BAF3 A900        013230   LDA # >[MDIAL2-MDIAL1]
BAF5 9D4903      013240   STA ICBLL,X
BAF8 2056E4      013250   JSR CIOV
BAFB AD9604      013260   LDA ANSFLG
BAFE D007        013270   BNE ANSF1
BB00 A918        013280   LDA #24
BB02 20B8BD      013290   JSR PLINE
BB05 D005        013300   BNE PREST
BB07 A917        013310 ANSF1 LDA #23
BB09 20B8BD      013320   JSR PLINE
BB0C A90B        013330 PREST LDA #CFUTC
BB0E 9D4203      013340   STA ICCMD,X
BB11 A92D        013350   LDA # <MDIAL2
BB13 9D4403      013360   STA ICBAL,X
BB16 A9BD        013370   LDA # >MDIAL2
BB18 9D4503      013380   STA ICBAL,X
BB1B A968        013390   LDA #[MDIAL3-MDIAL2]
BB1D 9D4803      013400   STA ICBLL,X
BB20 2056E4      013410   JSR CIOV
BB23 2002BD      013420 AKEY? JSR GETKEY
BB26 C941        013430   CMP #'A
BB28 F02A        013440   BEQ CHANSWR
BB2A C942        013450   CMP #'B
BB2C F031        013460   BEQ CHDIAL
BB2E C943        013470   CMP #'C
BB30 D003        013480   BNE D?
BB32 4C33BC      013490   JMP CHCHAN
BB35 C944        013500 D? CMP #'D
BB37 D003        013510   BNE E?
BB39 4C5ABC      013520   JMP CHLOAD
BB3C C945        013530 E? CMP #'E
BB3E D003        013540   BNE F?
BB40 4C90BC      013550   JMP CHSAVE
BB43 C946        013560 F? CMP #'F
BB45 F007        013570   BEQ HANGF
BB47 C947        013580   CMP #'G
BB49 D0DB        013590   BNE AKEY?
BB4B 4CDFAD      013600   JMP MENU
BB4E 209DA0      013610 HANGF JSR ONHOOK ;PORTA/PORTB
BB51 4C7EBA      013620   JMP DIAL ;WAZITANERROR?
BB54 AD9604      013630 CHANSWR LDA ANSFLG
BB57 4901        013640   EOR #1
BB59 8D9604      013650   STA ANSFLG
BB5C 4C7EBA      013660   JMP DIAL
BB5F A900        013670 CHDIAL LDA #0

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BB61 8D9604      013680      STA ANSFLG
BB64 20A4BB      013690      JSR PRNUMB
BB67 1003        013700      BPL CDIAL1
BB69 4CDFAD      013710      JMP MENU
BB6C A240        013720      CDIAL1 LDX ##40 ;PRINT THE NUM
BB6E A90B        013730      LDA ##0B      ;WAS CPUTR
BB70 9D4203      013740      STA ICCOM,X
BB73 A900        013750      LDA #0
BB75 9D4903      013760      STA ICBLH,X
BB78 A9CD        013770      LDA # <M26
BB7A 9D4403      013780      STA ICBAL,X
BB7D A9BF        013790      LDA # >M26
BB7F 9D4503      013800      STA ICBAL,X
BB82 A909        013810      LDA ##09      ;M26 LENGTH
BB84 9D4803      013820      STA ICBLL,X
BB87 2056E4      013830      JSR CIOV
BB8A A909        013840      LDA #CPUTR
BB8C 9D4203      013850      STA ICCOM,X
BB8F A5C8        013860      LDA DIALBF
BB91 9D4403      013870      STA ICBAL,X
BB94 A5C9        013880      LDA DIALBF+1
BB96 9D4503      013890      STA ICBAL,X
BB99 A919        013900      LDA #25
BB9B 9D4803      013910      STA ICBLL,X
BB9E 2056E4      013920      JSR CIOV
BBA1 4CD8BB      013930      JMP DIALNUM
BBA4 A902        013940      PRNUMB LDA #2
BBA6 20B8BD      013950      JSR PLINE
BBA9 2002BD      013960      BADK1 JSR GETKEY
BBAC 1001        013970      BPL GOODKY
BBAE 60          013980      RTS      ;ABORT
BBAF C930        013990      GOODKY CMP #'0
BBB1 30F6        014000      BMI BADK1
BBB3 C940        014010      CMP #'@
BBB5 10F2        014020      BPL BADK1
BBB7 38          014030      SEC
BBB8 E930        014040      SBC ##30      ;MAKE DECIMAL
BBBA AB          014050      TAY
BBBB ADA304      014060      LDA DIALADD
BBBE 85C8        014070      STA DIALBF
BBC0 ADA404      014080      LDA DIALADD+1
BBC3 85C9        014090      STA DIALBF+1
BBC5 88          014100      FINDNUM DEY
BBC6 300D        014110      BMI NUMFND
BBC8 A5C8        014120      LDA DIALBF
BBCA 18          014130      CLC
BBCB 6919        014140      ADC #25
BBCD 85C8        014150      STA DIALBF
BBCF 9002        014160      BCC ADDNC2
BBD1 E6C9        014170      INC DIALBF+1
BBD3 D0F0        014180      ADDNC2 BNE FINDNUM
BBD5 A900        014190      NUMFND LDA #0 ;SEND STATUS
BBD7 60          014200      RTS
BBD8 20A0A0      014210      DIALNUM JSR OFFHOOK
BBDB A900        014220      LDA #0
BBD D 8514       014230      STA $14      ;RTCLOCK
BBDF A514       014240      TONE LDA $14 ;4 SEC
BBE1 C9FF        014250      CMP #255

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BBE3 10FA      014260      BPL TONE      ;WAIT FOR DIAL
BBE5 A0FF      014270      LDY ##FF
BBE7 C8        014280      BADNUM INY
BBE8 B1C8      014290      LDA (DIALBF),Y
BBEA C99B      014300      CMP #155
BBEC F03A      014310      BEQ DLDONE
BBEE C930      014320      CMP #'0
BBF0 30F5      014330      BMI BADNUM
BBF2 C93A      014340      CMP #' :
BBF4 10F1      014350      BPL BADNUM
BBF6 38        014360      SEC
BBF7 E930      014370      SBC ##30      ;MAKE 0-9
BBF9 D002      014380      BNE DIGOK
BBFB A90A      014390      LDA #10      ;10=ODIAL
BBFD AA        014400      DIGOK TAX
BBFE 2010BC    014410      DIALOOP JSR PULSE
BC01 CA        014420      DEX
BC02 D0FA      014430      BNE DIALOOP
BC04 A900      014440      LDA #0
BC06 8514      014450      STA $14
BC08 A514      014460      PULWAIT LDA $14 ;RTCLOCK
BC0A C93C      014470      CMP #60
BC0C 30FA      014480      BMI PULWAIT
BC0E 10D7      014490      BPL BADNUM ;DONE WITH
                014500      ;6/10 SEC DELAY BETWEEN
                014510      ;NUMBERS
BC10 209DA0    014520      PULSE JSR ONHOOK
BC13 201DBC    014530      JSR W10TH
BC16 20A0A0    014540      JSR OFFHOOK
BC19 201DBC    014550      JSR W10TH
BC1C 60        014560      RTS
BC1D A900      014570      W10TH LDA #0
BC1F 8514      014580      STA $14      ;RTCLOCK
BC21 A514      014590      SEC10TH LDA $14
BC23 C903      014600      CMP #3
BC25 30FA      014610      BMI SEC10TH
BC27 60        014620      RTS
BC28 A901      014630      DLDONE LDA #1
BC2A 8D6C05    014640      STA PHONE
BC2D 8DA604    014650      STA DIALF
BC30 4CDFAD    014660      JMP MENU
                014670      ;
BC33 20A4BB    014680      CHCHAN JSR PRNUMB
                014690      ;RETURNS WITH STARTING ADDRESS OF NUMBER TO CHANGE IN
                DIALBF
BC36 1003      014700      BPL CCHAN1
BC38 4CDFAD    014710      JMP MENU
BC3B A903      014720      CCHAN1 LDA #3
BC3D 20B8BD    014730      JSR PLINE
BC40 A5C8      014740      LDA DIALBF
BC42 9D4403    014750      STA ICBAL,X
BC45 A5C9      014760      LDA DIALBF+1
BC47 9D4503    014770      STA ICBAL,X
BC4A A918      014780      LDA #24
BC4C 9D4803    014790      STA ICBLL,X
BC4F A905      014800      LDA #5
BC51 9D4203    014810      STA ICCMD,X
BC54 2056E4    014820      JSR CIOV

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BC57 4C7EBA	014830	JMP DIAL
BC5A 2091A0	014840	CHLOAD JSR CLOSE
BC5D 2066BC	014850	JSR LDNUM
BC60 208EA0	014860	JSR OPEN
BC63 4C7EBA	014870	JMP DIAL
BC66 20BBBC	014880	LDNUM JSR PROPEN
BC69 A904	014890	LDA #4 ; INPUT
BC6B 9D4A03	014900	STA ICAX1,X
BC6E 20E0BC	014910	JSR PRTRANS
BC71 3017	014920	BMI CHLD2
BC73 A907	014930	LDA #CGETC
BC75 9D4203	014940	STA ICCMD,X
BC78 2056E4	014950	JSR CIOV
BC7B 100D	014960	BPL CHLD2
BC7D C988	014970	CMP #136 ; EOF
BC7F F009	014980	BEQ CHLD2
BC81 2057AB	014990	JSR OEDIT
BC84 20ECB0	015000	JSR DERROR
BC87 20D4B0	015010	JSR WAITKEY
BC8A A230	015020	CHLD2 LDX ##30
BC8C 2029AB	015030	JSR CIOCB
BC8F 60	015040	RTS
BC90 2091A0	015050	CHSAVE JSR CLOSE
BC93 20BBBC	015060	JSR PROPEN
BC96 A908	015070	LDA #8
BC98 9D4A03	015080	STA ICAX1,X
BC9B 20E0BC	015090	JSR PRTRANS
BC9E 300A	015100	BMI CHSA2
BCA0 A90B	015110	LDA #CPUTC
BCA2 9D4203	015120	STA ICCMD,X
BCA5 2056E4	015130	JSR CIOV
BCA8 1006	015140	BPL CHSA3
BCAA 20ECB0	015150	CHSA2 JSR DERROR
BCAD 20D4B0	015160	JSR WAITKEY
BCB0 A230	015170	CHSA3 LDX ##30
BCB2 2029AB	015180	JSR CIOCB
BCB5 208EA0	015190	JSR OPEN
BCB8 4C7EBA	015200	JMP DIAL
BCBB A230	015210	PROPEN LDX ##30
BCBD 2029AB	015220	JSR CIOCB
BCC0 A509	015230	LDA #09 ; BOOT?
BCC2 D00C	015240	BNE DISKBT
BCC4 A995	015250	LDA # <MCASS
BCC6 9D4403	015260	STA ICBAL,X
BCC9 A9BD	015270	LDA # >MCASS
BCCB 9D4503	015280	STA ICBAL,X
BCCE D00A	015290	BNE OPDEV
BCD0 A998	015300	DISKBT LDA # <MDISK
BCD2 9D4403	015310	STA ICBAL,X
BCD5 A9BD	015320	LDA # >MDISK
BCD7 9D4503	015330	STA ICBAL,X
BCDA A900	015340	OPDEV LDA #0
BCDC 9D4B03	015350	STA ICAX2,X
BCDF 60	015360	RTS
BCE0 A903	015370	PRTRANS LDA #COPEN
BCE2 9D4203	015380	STA ICCMD,X ; OPEN
BCE5 2056E4	015390	JSR CIOV
BCE8 1001	015400	BPL PRTR0K

BCEA 60	015410	RTS
BCEB ADA304	015420	PRTR0K LDA DIALADD
BCEE 9D4403	015430	STA ICBAL,X
BCF1 ADA404	015440	LDA DIALADD+1
BCF4 9D4503	015450	STA ICBAL,X
BCF7 A9FC	015460	LDA #252
BCF9 9D4803	015470	STA ICBLL,X
BCFC A900	015480	LDA #0
BCFE 9D4903	015490	STA ICBLL,X
BD01 60	015500	RTS
BD02 8A	015510	GETKEY TXA
BD03 48	015520	PHA
BD04 2032AB	015530	JSR OKEYB
BD07 A907	015540	LDA #CGETC
BD09 9D4203	015550	STA ICCMD,X
BD0C 2056E4	015560	JSR CIOV
BD0F 8DA204	015570	STA PLCNT
BD12 08	015580	PHP
BD13 2029AB	015590	JSR CIOCB
BD16 28	015600	PLP
BD17 68	015610	PLA
BD18 AA	015620	TAX
BD19 ADA204	015630	LDA PLCNT
BD1C 60	015640	RTS
BD1D 9B	015650	MDIAL1 .BYTE 155
BD1E 7F412920	015660	.BYTE \$7F,"A) AUTOANSWER "
BD22 4155544F		
BD26 414E5357		
BD2A 455220		
BD2D 7F422920	015670	MDIAL2 .BYTE \$7F,"B) DIAL NUMBER",155
BD31 4449414C		
BD35 204E554D		
BD39 4245529B		
BD3D 7F432920	015680	.BYTE \$7F,"C) CHANGE NUMBER",155
BD41 4348414E		
BD45 4745204E		
BD49 554D4245		
BD4D 529B		
BD4F 7F442920	015690	.BYTE \$7F,"D) LOAD NUMBERS",155
BD53 4C4F4144		
BD57 204E554D		
BD5B 42455253		
BD5F 9B		
BD60 7F452920	015700	.BYTE \$7F,"E) SAVE NUMBERS",155
BD64 53415645		
BD68 204E554D		
BD6C 42455253		
BD70 9B		
BD71 7F462920	015710	.BYTE \$7F,"F) HANG UP PHONE",155
BD75 48414E47		
BD79 20555020		
BD7D 50484F4E		
BD81 459B		
BD83 7F472920	015720	.BYTE \$7F,"G) EXIT",155
BD87 45584954		
BD8B 9B		
BD8C 9B43484F	015730	.BYTE 155,"CHOICE?",155
BD90 4943453F		



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BD94 9B
BD95 015740 MDIAL3
BD95 433A9B 015750 MCASS .BYTE "C:",155
BD98 443A4D50 015760 MDISK .BYTE "D:MPP.DAT",155
BD9C 502E4441
BDA0 549B
BDA2 443A4D53 015770 M79 .BYTE "D:MS232.MPP",155
BDA6 3233322E
BDAA 4D50509B
BDAE 443A4D50 015780 M80 .BYTE "D:MPX.MPP",155
BDB2 582E4D50
BDB6 509B

015790 ;PRINTS ONE LINE MESSAGE ENDING WITH CR
015800 ;MESSAGE INDEXED BY A REGISTER
BDB8 8DA204 015810 PLINE STA PLCNT
BDB8 CEA204 015820 DEC PLCNT
BDBE A904 015830 LDA # <MO
BDC0 85C6 015840 STA PLPTR
BDC2 A9BE 015850 LDA # >MO
BDC4 85C7 015860 STA PLPTR+1
BDC6 A000 015870 LDY #0
BDC8 A5C6 015880 LOOKCR LDA PLPTR
BDCA 18 015890 CLC
BDCB 6901 015900 ADC #1
BDCD 85C6 015910 STA PLPTR
BDCF 9002 015920 BCC LCR1
BDD1 E6C7 015930 INC PLPTR+1
BDD3 B1C6 015940 LCR1 LDA (PLPTR),Y
BDD5 C99B 015950 CMP #155
BDD7 D0EF 015960 BNE LOOKCR
BDD9 CEA204 015970 FNDCCR DEC PLCNT
BDDC D0EA 015980 BNE LOOKCR
BDDE A240 015990 LDX ##40
BDE0 A5C6 016000 LDA PLPTR
BDE2 18 016010 CLC
BDE3 6901 016020 ADC #1
BDE5 9D4403 016030 STA ICBAL,X
BDE8 9002 016040 BCC NCAR1
BDEA E6C7 016050 INC PLPTR+1
BDEC A5C7 016060 NCAR1 LDA PLPTR+1
BDEE 9D4503 016070 STA ICBAL,X
BDF1 A928 016080 LDA #40
BDF3 9D4803 016090 STA ICBLL,X
BDF6 A900 016100 LDA #0
BDF8 9D4903 016110 STA ICBLL,X
BDFB A909 016120 LDA #CPUTR
BDFD 9D4203 016130 STA ICCMD,X
BE00 2056E4 016140 JSR CIOV ;PRINTIT
BE03 60 016150 RTS
016160 ;START OF MESSAGES
BE04 00 016170 M0 .BYTE $00
BE05 209B 016180 M1 .BYTE " ",155 ;'CR'
BE07 4E554D42 016190 M2 .BYTE "NUMBER?",155
BE0B 45523F9B
BE0F 4E455720 016200 M3 .BYTE "NEW NUMBER?",155
BE13 4E554D42
BE17 45523F9B
BE1B 44454C45 016210 M4 .BYTE "DELETE BUFFERS (Y/N) ?",155

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BE1F 54452042
BE23 55464645
BE27 52532028
BE2B 592F4E29
BE2F 203F9B
BE32 20204255 016220 M5 .BYTE " BUFFERS USED",155
BE36 46464552
BE3A 53205553
BE3E 45449B
BE41 42554646 016230 M6 .BYTE "BUFFER NOT CREATED",155
BE45 4552204E
BE49 4F542043
BE4D 52454154
BE51 45449B
BE54 42554646 016240 M7 .BYTE "BUFFER # TO COPY?",155
BE58 45522023
BE5C 20544F20
BE60 434F5059
BE64 3F9B
BE66 7D444952 016250 M8 .BYTE $7D,"DIRECT PRINT",155
BE6A 45435420
BE6E 5052494E
BE72 549B
BE74 7F4B2920 016260 M9 .BYTE $7F,"K) MODEM -> PRINTER DIRECT",155
BE78 4D4F4445
BE7C 4D202D3E
BE80 20505249
BE84 4E544552
BE88 20444952
BE8C 4543549B
BE90 7F4C2920 016270 M10 .BYTE $7F,"L) LOAD BUFFER FROM DEVICE",155
BE94 4C4F4144
BE98 20425546
BE9C 46455220
BEA0 46524F4D
BEA4 20444556
BEA8 4943459B
BEAC 7F4D2920 016280 M11 .BYTE $7F,"M) DIAL/ANSWER FUNCTIONS",155
BEB0 4449414C
BEB4 2F414E53
BEB8 57455220
BEBE 46554E43
BEC0 54494F4E
BEC4 539B
BEC6 7F542920 016290 M12 .BYTE $7F,"T) TERMINAL MODE",155
BECA 5445524D
BECE 494E414C
BED2 204D4F44
BED6 459B
BED8 7F562920 016300 M13 .BYTE $7F,"V) VARIABLE BAUD RATE",155
BEDC 56415249
BEE0 41424C45
BEE4 20424155
BEE8 44205241
BEEC 54459B
BEEF 43484F49 016310 M14 .BYTE "CHOICE ?",155
BEF3 4345203F
BEF7 9B
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BEF8 50524553      016320 M15 .BYTE "PRESS <RETURN> TO CONTINUE",155
BEFC 53203C52
BF00 45545552
BF04 4E3E2054
BF08 4F20434F
BF0C 4E54494E
BF10 55459B
BF13 42554646      016330 M16 .BYTE "BUFFER COPY READY",155
BF17 45522043
BF1B 4F505920
BF1F 52454144
BF23 599B
BF25 55534520      016340 M17 .BYTE "USE <OPTION> TO START AND STOP SAVE",155
BF29 3C4F5054
BF2D 494F4E3E
BF31 20544F20
BF35 53544152
BF39 5420414E
BF3D 44205354
BF41 4F502053
BF45 4156459B
BF49 54484953      016350 M18 .BYTE "THIS OPTION LOADS THE BUFFER FROM",155
BF4D 204F5054
BF51 494F4E20
BF55 4C4F4144
BF59 53205448
BF5D 45204255
BF61 46464552
BF65 2046524F
BF69 4D9B
BF6B 41204445      016360 M19 .BYTE "A DEVICE. LEGAL DEVICES ARE:",155
BF6F 56494345
BF73 2E204C45
BF77 47414C20
BF7B 44455649
BF7F 43455320
BF83 4152453A
BF87 9B
BF88 2A2A2042      016370 M20 .BYTE "** BUFFER FULL **",155
BF8C 55464645
BF90 52204655
BF94 4C4C202A
BF98 2A9B
BF9A FD2A2A20      016380 M21 .BYTE $FD,"** ONLINE **",155
BF9E 4F4E4C49
BFA2 4E45202A
BFA6 2A9B
BFA8 7F453A20      016390 M22 .BYTE $7F,"E:          - SCREEN EDITOR",155
BFAC 20202020
BFBO 20202020
BFB4 2D205343
BFB8 5245454E
BFBC 20454449
BFC0 544F529B
BFC4 CFCE9B      016400 M23 .BYTE $CF,$CE,155 ;ON
BFC7 CFC6C69B      016410 M24 .BYTE $CF,$C6,$C6,155 ;OFF
BFCE 209B      016420 M25 .BYTE " ",155
BFCD 4155544F      016430 M26 .BYTE "AUTODIAL:"
```

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BFD1 4449414C
BFD5 3A
BFD6 2020      016440 ENDPR .BYTE " "
BFD8           016450 ROMJTABLE
BFD8 72A1      016460 .WORD JMODINIT
BFDA 82A1      016470 .WORD JOPEN
BFDC D0A1      016480 .WORD JCLOSE
BFDE E6A1      016490 .WORD JREAD
BFE0 14A2      016500 .WORD JWRITE
BFE2 50A2      016510 .WORD JMSTATS
BFE4 5FA2      016520 .WORD JONHOOK
BFE6 68A2      016530 .WORD JMSA      .WORD JOFFHOOK
BFE8 71A2      016540 .WORD JMSE
BFEA 7AA2      016550 .WORD JMSE
BFEC           016560 ROMCBAUD
BFEC 3330309B  016570 .BYTE "300",155,155,155
BFF0 9B9B
      =0000      016580 .IF *>$BFFA
      016590 .ERROR "OUT OF ROM"
      016600 .ENDIF
      =0001      016610 .IF FROM
BFF2 016620 *= $BFFA
BFFA 27AD      016630 .WORD STERN ; START
BFFC 00        016640 .BYTE 0
BFFD 05        016650 .BYTE 5 ; BOOT DISK
BFFE EBAC      016660 .WORD START
      016670 .ENDIF
      016680 ;

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ASSEMBLY ERRORS: 0 17172 BYTES FREE

=0006 ACK	BBD3 ADDNC2	=D800 AFF	BB23 AKEY?
=D208 ALLPOT	BB07 ANSF1	0496 ANSFLG	=D201 AUDC1
=D208 AUDCTL	=D200 AUDF1		
B792 BADBD	B59D BADBUF	BBA9 BADK1	BBE7 BADNUM
0568 BAUD	B814 BDBD	B53B BDEFLT	A0FD BFNOTFUL
0565 BFPTS	B4C1 BFULL	ABE7 BINDEX	0489 BINF
A5A3 BIT8	048A BIT8F	A8D1 BLKNUM	ABEA BLOOP
AFEF BMENU	B97D BMES1	B98A BMES2	B482 BOK
0482 BOTBUF	=0011 BRKKEY	0096 BUFF	B531 BUFF?
0080 BUFFER	04A5 BUFFNUM	B139 BUFFSZ	=00FE BUFLN
0484 BUFMAX	ABA0 BUFOK	=00CC BUFPTR	B5B1 BUFUSED
A94E BUGG1	A6F6 BUGG2		
=0018 CAN	AE26 CARND	A33F CAROK	ADDC CASBT
048C CASFLG	AF83 CB	04D3 CBAUD	B7CC CBOK
AF8A CC	BC3B CCHAN1	=000C CCLOSE	AF91 CD
BB6C CDIAL1	AF98 CE	AF9F CF	=0007 CGETC
=0005 CGETR	=02FC CH	AFAE CH1	=D401 CHACTL
BB54 CHANSWR	=02F3 CHART	=02F4 CHBAS	=D409 CHBASE
B056 CHBAUD	BC33 CHCHAN	BB5F CHDIAL	A1FF CHK
A146 CHKBUF	055E CHKSUM	BC8A CHLD2	BC5A CHLOAD
BCAA CHSA2	BCB0 CHSA3	BC90 CHSAVE	AFC0 CI
AB29 CIOCB	=E456 CIOV	AFCF CJ	B010 CK
B65B CKDOPN	A21E CKLOOP	B017 CL	=FCD8 CLICK
A286 CLOOP1	A091 CLOSE	B01E CM	B41F CMPC
=D01A COLBK	048F COLFLG	=02C4 COLORO	=D016 COLPFO
=D012 COLPMO	A63F CON1	A3AB CON76	A6A4 CONGO
=D01F CONSOL	A51D CONTI2	=0003 COPEN	B230 COPYBF
B025 CP	B040 CPO	B03C CP1	B042 CPSTR
=000B CPUTC	=0009 CPUTR	B2AB CPYCAS	B343 CPYDN1
B342 CPYDONE	B305 CPYLOOP	B374 CPYMOD	B2E9 CPYOK1
B2BD CPYOP1	B396 CPYOPN	ADCC CRL00P	=000D CSTATUS
B048 CT			
BB35 D?	=030A DAUX1	=030B DAUX2	=0305 DBUFHI
=0304 DBUFLO	=0309 DBYTHI	=0308 DBYTLO	=0302 DCOMND
=0300 DDEVIC	04B9 DEFFLG	B1E8 DELBF	B204 DELYES
0567 DERFLG	B0EC DERROR	B571 DEYDN	B569 DEYLP
BA7E DIAL	04A3 DIALADD	=00C8 DIALBF	04A6 DIALF
BBD8 DIALNUM	BBFE DIAL00P	BBFD DIGOK	B678 DINPUT
B656 DIRBCK	B5D9 DIRDISK	B0C6 DIRDONE	B059 DIRECT
B0BB DIRERR	B73C DIRPR	BCD0 DISKBT	0490 DISKF
BA78 DISKM	B616 DISKMOD	BC28 DLDONE	=D403 DLISTH
=D402 DLISTL	=D400 DMACTL	A72B DONT	B69F DOPNOK
=000C DOSINI	=000A DOSVEC	B673 DOUTPUT	0495 DPRFLG
A0AC DRIVER	B5F8 DRPROK	A498 DSKERR	ABOC DSKFIX
=02FE DSPFLG	=0303 DSTATS	=0306 DTIMLO	=0301 DUNIT
A409 DUPHLF	048B DUPLF		
BB3C E?	A5EE ECHO	A5EB ECHOD	AC7A EDERR
AB83 EDIT	AC11 EDITLP	AC0E EDITOR	AC93 EFULL
A3D2 ENDOPT	BFD6 ENDPR	0569 ENDRAM	A372 ENDTE1
A3DA ENDTEST	=0004 EOT	AA00 EOTMES	0560 ERFL
B4AB ERROK	A233 EVENP		
AE60 F1	BB43 F?	=D8E6 FASC	=DB28 FDIV
BBC5 FINDNUM	=DDB6 FMOVE	BDD9 FNDCR	A2D3 FORSEC
=D9D2 FPI	B1C0 FPRINT	=00D4 FRO	=DA60 FSUB
0494 FULLF			
AE6A GO	AF45 GCHCE	B1F3 GCHCE1	AF7C GCHOK
B7EE GDBAUD	A0C4 GETBIT	A025 GETEM	A000 GETHDR

BD02 GETKEY	A85C GETREC	A861 GETRTY	B624 GFILEN
B547 GKEY	A43A GOERR	BBAF GOODKY	A939 GOODREC
056B GOTREC	=026F GPRIOR	=D01D GRAC TL	=D011 GRAFM
=D00D GRAFPO	A704 GREC	A39E GREEN	A8A0 GSOH
A466 GTERM	AA50 GXC	AA4B GXCHAR	
AE6D HO	AE86 H1	04A7 HANDFLG	BB4E HANGP
A2F6 HANGUP	04AA HDRBFF	=D014 HITCLR	=D004 HPOSMO
=D000 HPOSPO	=D404 HSCROL		
AE90 IO	AEAC I1	04B7 IBUFERR	=034A ICAX1
=034B ICAX2	=0345 ICBAH	=0344 ICBAL	=0349 ICBLH
=0348 ICBLL	=0342 ICCMD	=0342 ICCOM	=D9AA IFF
A42B INCH	AA71 INCHAR	A59C INCONV	ABAC INCRND
ABF3 INDONE	04A0 INIBYTE	0499 INIT	AD1E INITONE
04BC INF	04B6 INPBFFT	04B1 INPBIT	=00CA INPBUF
04B3 INFINT	AAAA INTST	B817 INTOK	AF7A INV DONE
0498 INVEND	AF4F INVLP	0497 INVST	=0340 IOCB
=D20E IRQEN	=D20E IRQST	04B8 ISTOP	
AEB6 JO	AED4 J1	AEE0 J2	A1D0 JCLOSE
B47F JLD1	A290 JLP2	AFBD JMEN	A172 JMODINIT
A268 JMSA	A271 JMSB	A27A JMSC	A250 JMSTATS
A256 JOFFHOOK	A25F JONHOOK	A182 JOPEN	A1E6 JREAD
04BD JTABLE	A214 JWRITE		
AE6A KO	AF17 K1	AF23 K2	=D209 KBCODE
A46A KEEPER	AB81 KEYB	B551 KEYOK	B55B KEYRND
A2E7 KEYSNT	0561 KEYTOG		
056A LASTCH	B592 LASTONE	0563 LASTREC	BDD3 LCR1
B46B LD1	B422 LDCAS	B4D0 LDERR	B44D LDLOOP
BC66 LDNUM	B4DB LDONE	B434 LDOFN	ACC5 LINE
B3AB LOADBF	0492 LOADF	BDC8 LOOKCR	A27E LOOP1
A315 LOOP2	A324 LOOP3	A04F LOOPZA	A34F LP1
A351 LP2	=0234 LPENH	=0235 LPENV	A6F8 LUP
A6FA LUPNOW	A9C3 LZF		
BE04 MO	=D000 MOPF	=D008 MOPL	BE05 M1
BE90 M10	BEAC M11	BEC6 M12	BED8 M13
BEEF M14	BEF8 M15	BF13 M16	BF25 M17
BF49 M18	BF6B M19	BE07 M2	BF88 M20
BF9A M21	BFA8 M22	BFC4 M23	BFC7 M24
BFCB M25	BFGD M26	BE0F M3	BE1B M4
BE32 M5	BE41 M6	BE54 M7	BDA2 M79
BE66 M8	BDAE M80	BE74 M9	0486 MAXTOP
B825 MBAUD	B83B MBAUD1	BD95 MCASS	B9A8 MCOFY
BA77 MCOFY1	A49B MCPERR	BD1D MDIAL1	BD2D MDIAL2
BD95 MDIAL3	B6AC MDIRD	B73B MDIRD1	BD98 MDISK
B381 MDMOK	ACB0 MEDIT	=02E7 MEMLO	=02E5 MEMTOP
ADDF MENU	AF4A MENU1	B996 MERROR	B850 MES
B90D MESF	B922 MESH	B934 MESI	B94C MESJ
B966 MESF	B6A0 MFILEN	B9E8 MLOAD	BA26 MLOAD1
BA65 MLOAD4	A9A9 MOAN	A743 MOCHR	A08B MODINIT
B606 MODISK	A1F1 MOVE4	A0A3 MSPEC1	A0A6 MSPEC2
A0A9 MSPEC3	A09A MSTATS		
A4AF NAFULL	=0015 NAK	A595 NBEL	A59B NBSF
BDEC NCAR1	B4BE NCARRY	A58F NCLR	A589 NCR
A602 NECHO	A38E NENDTE	A43D NERK08	A57A NERR4
AB85 NEWBUFF	=D40E NMIE	=D40F NMIRES	=D40F NMIST
ADC4 NO80COL	A31C NOAT1	A5B4 NOBEL	A50B NOBERR
A35E NOBRK1	A5BA NOBSP	A114 NOBYTE	AC86 NOCAR1
AC5E NOCARRY	BAD5 NOCARY	AA39 NOCHAR	A5C0 NOCLR
A5AE NOCR	B360 NOCR1	A983 NODSK	A66F NOEKCH



A56F NOEOF	B2A8 NOFN	A428 NOGO	A50C NOINCH
AF6D NOINV	A40A NOKEY	B00D NOOPN1	A6E3 NOOPT
A29E NOOPT1	A237 NOPAR	A873 NOPST	A8C1 NOPST2
A8B2 NOPSTOP	A651 NOQUT	A883 NOREC3	A2AB NORING
A3CA NOSAVM	A539 NOSFUL	A89D NOST2	A384 NOSTART
A0D6 NOSTOP	A662 NOTAGN	B565 NOTBAD	A67E NOTCAN
AC28 NOTFUL	AAB9 NOTNOW	A5C9 NOTRAN	A4E7 NOTZE
A082 NOWAY	A4B8 NOZIP	B75E NPROFN	A886 NREMSTO
A2C5 NSTART	A64C NTIME	BBD5 NUMFND	A86E NXTOK
ABA8 NY			
=0001 OBFLFN	AB57 OEDIT	A0A0 OFFHOOK	A211 OK5
AB32 OKEYB	A137 ONEOUT	A331 ONESEC	A09D ONHOOK
B2A1 OPARND	BCDA OPDEV	A08E OPEN	056D OPFLG
A96B OPSTOP	=E474 OSRETN	04B5 OUTBFPT	04B0 OUTBIT
04B4 OUTBUF	A57E OUTCON	A5CA OUTD01	04B2 OUTINT
A06D OUTZ			
=D004 POFF	=D00C POPL	=0270 PADDLO	A737 PADLOP
04BA PARFLG	B1BC PASC	=D302 PBCTL	AACF PBLKNUM
=02C0 PCOLRO	B082 PDIR	=D40C PENH	=D40D PENV
056C PHONE	A2A6 PHYES	=D300 PIA	AA74 PIT
04A2 PLCNT	BDB8 PLINE	BA93 PLOOF	=00C6 FLPTR
=D407 PMBASE	=0010 POKMSK	=D300 PORTA	=D300 PORTB
=D200 POTO	=D20B POTGO	BB0C PREST	0491 PRFLG
=D01B PRIOR	BBA4 PRNUMB	=0001 FROM	BCBB PROPEN
AF4D PROPT	=00D0 PRPTR	BCE0 PRTRANS	BCEB PRTR0K
=00CE PTR	B319 PTRINC	B31F PTROK	BC10 PULSE
BC08 PULWAIT	AB1B FXMES1	A835 FXMES6	A7E7 FXMES7
AB01 FXMES8			
=D20A RANDOM	A552 RDISK	A094 READ	A956 RECL0P
A9E4 REMABORT	A687 REMRDY	A9DE REMSTOP	AD81 RESTRT
A24A RET123	A543 RETER2	A24D RETNOW	A53F RETOK2
A681 RETRY1	A144 RETURN	04A8 RFNAME	BFEC ROMCBAUD
BFD8 ROMJTABLE	A0E1 ROTATE	=0012 RTCLOK	A73D RTFOL
A2C2 RTMENU	A088 RUNITZ		
A9BE SAV	0493 SAVEF	048D SAVMOD	A996 SAVPREC
A951 SAVREC	A4A4 SAVTOBF	04BB SCRAT	048E SCRFLG
=0231 SDLSTH	=0230 SDLSTL	=022F SDMCTL	BC21 SEC10TH
A11B SENDBIT	A425 SENOUT	=00D2 SENPTR	A63A SENREC
A694 SEOT	=D20A SERIN	=D20C SEROUT	=E45C SETVBV
=02BE SHFLK	A221 SHFT	=E459 SIOV	=D00C SIZEM
=D008 SIZEPO	=D20F SKCTL	=D20A SKREST	=D20F SKSTAT
=0001 SOH	=022B SRTIMR	=0232 SSKCTL	ACEB START
AD27 STERM	AD32 STERM.1	=0278 STICKO	=D209 STIMER
A30A STKEY	A70C STOK	A711 STOK2	=0284 STRIGO
B1B0 SUBTR			
AF2D TO	A27E TERM	B053 TERM1	B502 TERM2
B518 TERM3	AA94 TESOPT	A37A TESTER	ABF4 TMANY
ABC8 TOMANY	BBDF TONE	0480 TOPBUF	0488 TRANF
=D010 TRIGO	AA27 TST2	AA58 TSTBUF	
B766 VBAUD	=D40B VCOUNT	=D01C VDELAY	=0216 VIMIRQ
=D405 VSCROL	=0210 VTIMR1		
BC1D W10TH	B0D4 WAITKEY	A5DD WAITL	A5DF WAIT5
AD1A WARM	A2B7 WCARR	A699 WHAF	A097 WRITE
=D40A WSYNC			
ABF1 XACKCO	A88D XBADSH	0564 XBLKNUM	0562 XBYTE
A8EB XIG4	A8CE XIGOP3	AA1F XIGRC1	AA1A XIGREC
=E462 XITVBV	04D9 XMBUFF	A74B XMES1	A764 XMES3
A77B XMES4	A794 XMES5	A7BB XMES6	A7D2 XMES7

A7DC XMES8	A7E7 XMES9	AABC XMEXIT	A84F XMLoad
A903 XML0P	A604 XMODEM	055F XMODF	A61B XMsave
A8F9 XNUMOK	A92A XOK1	A90E XOK2	A857 XRETRY
A6C7 XSENLP	A633 XSNLF	055B XTEMP	055C XTEMP1
055D XTEMP2			
A293 YANSF	ADB0 YEAH		
AFE6 Z38COL	AFF2 ZBOCOL	A0E0 ZIP0	A13C ZIPSKIP